



# LA GEOMETRÍA DE LA NATURALEZA

Alejandro Mos Riera





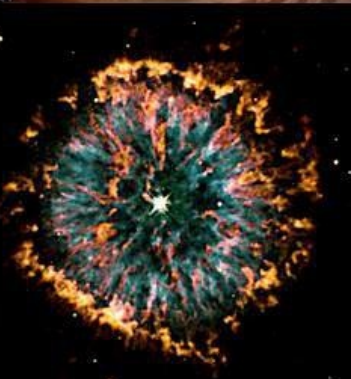
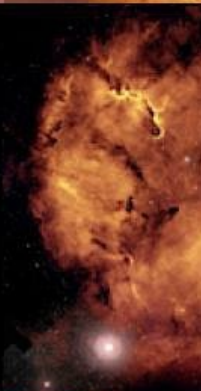


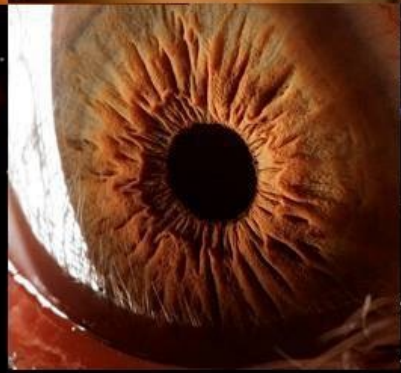
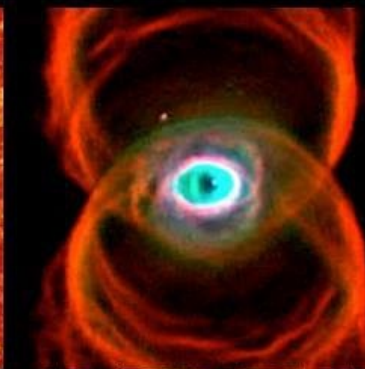
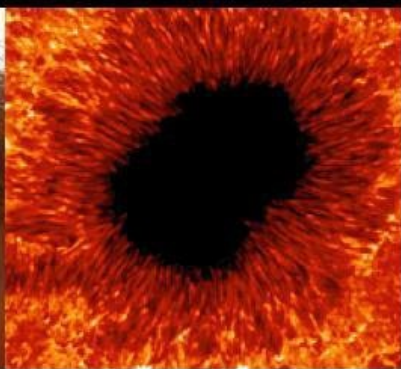
















**There is grandeur in this view of life, with its several powers, having been originally breathed into a few forms or into one; and that, whilst this planet has gone cycling on according to the fixed law of gravity, from so simple a beginning endless forms most beautiful and most wonderful have been, and are being, evolved.**

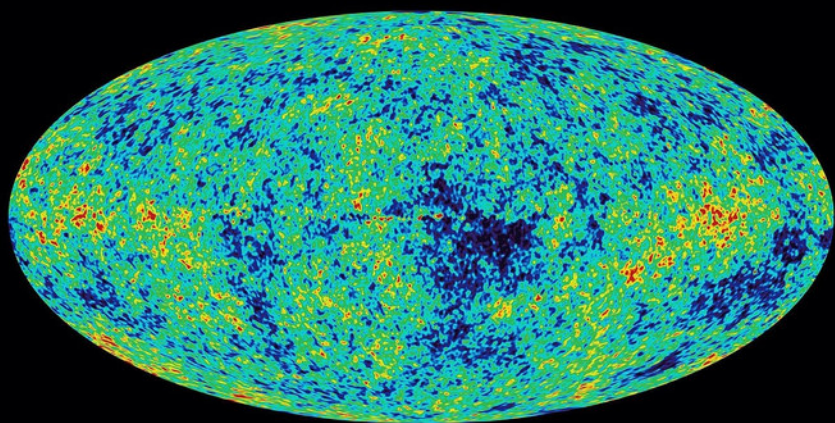
**\*\*\***

**Hay grandeza en esta concepción según la cual la vida, con sus diferentes fuerzas, ha sido alentada por el Creador en un reducido número de formas o en una sola, y que, mientras este planeta ha ido girando según la constante ley de la gravitación, se han desarrollado y se están desarrollando, a partir de un principio tan sencillo, una infinidad de las formas más bellas y portentosas.**

**Charles Darwin**



**A cell**

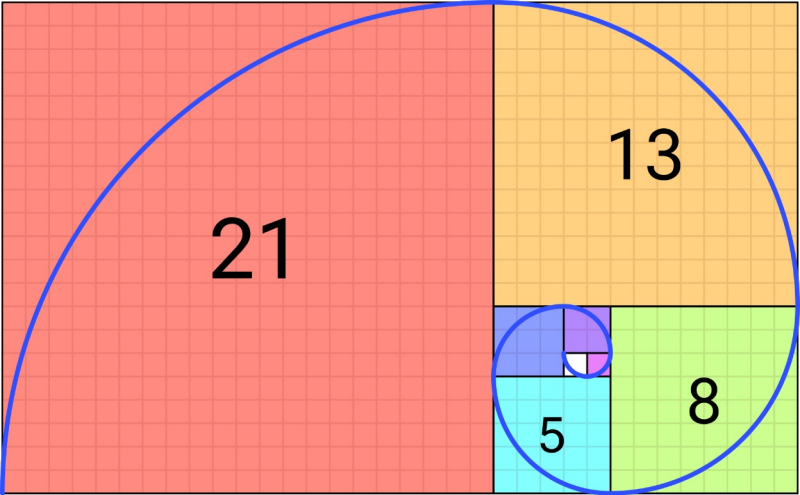


**The Universe**

**"El libro de la naturaleza está escrito en el lenguaje de las matemáticas."**

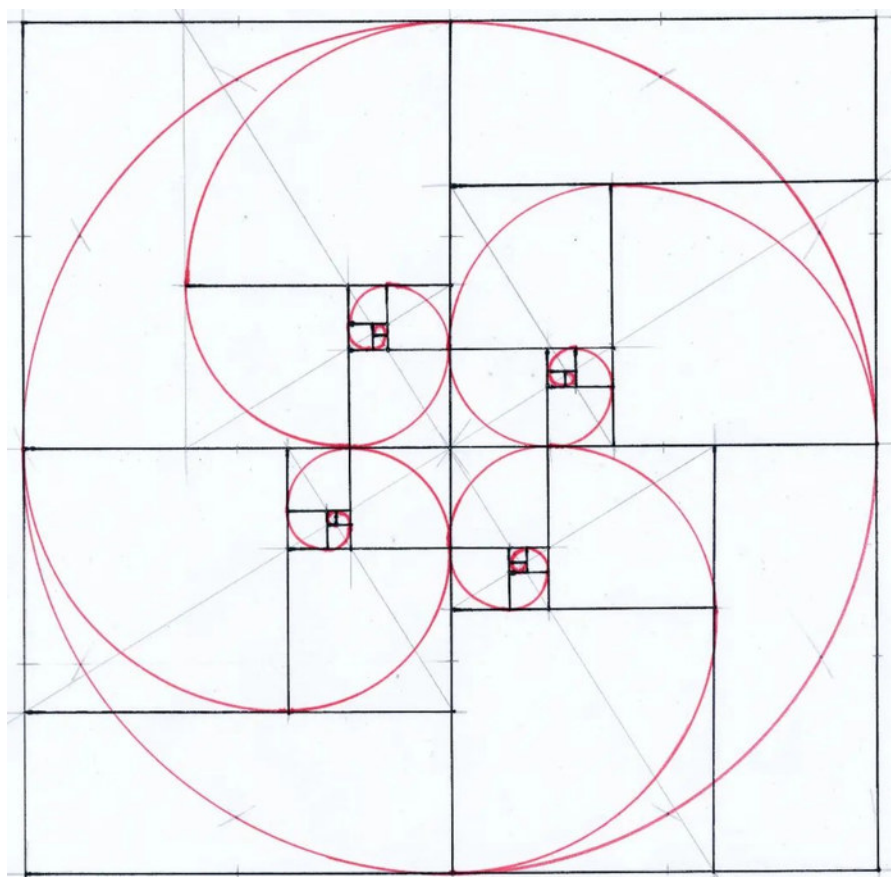
**"The Book of Nature is written in mathematical language, and its characters are triangles, circles and other geometric figures, without which it is impossible to humanly understand a word; without these, one is wandering in a dark labyrinth."**

**Galileo Galilei**









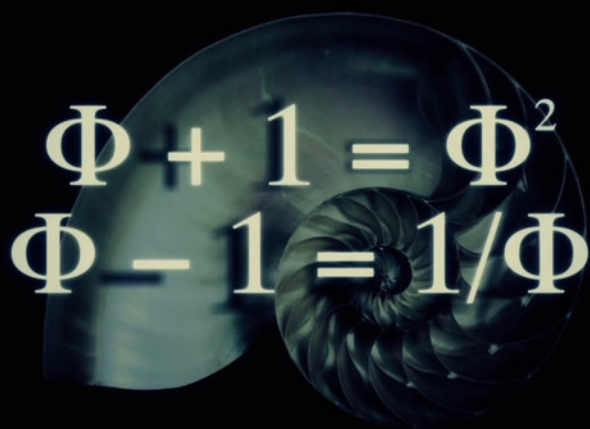


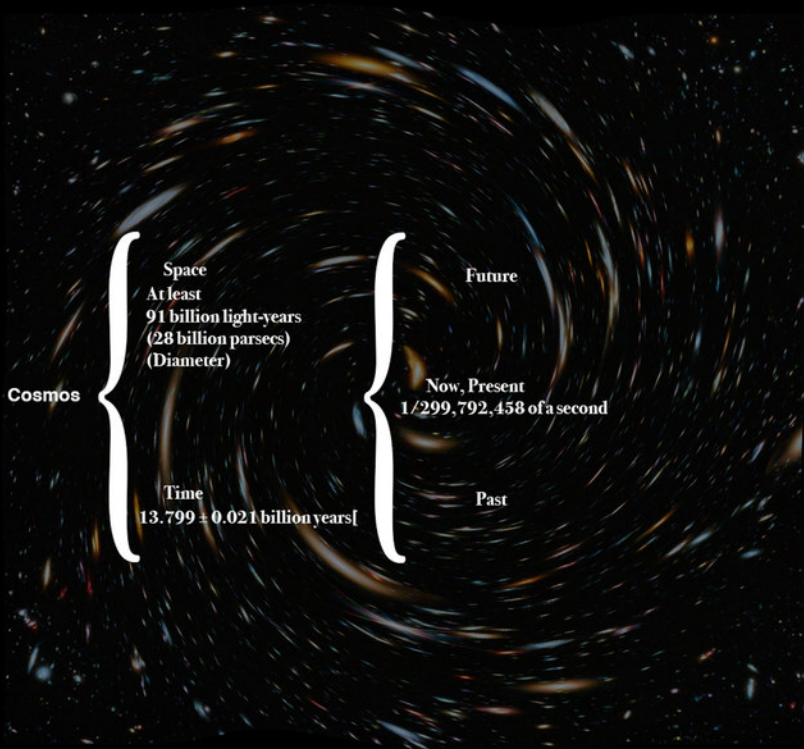
**"Existe una geometría muy común en el universo. Desde el universo hasta la partícula más pequeña de la materia, todo está bajo el efecto violento de esta geometría común.**

**Todas las ramas de la ciencia siguen las reglas de esta geometría común.**

**Esta geometría natural existe en todas partes. Donde hay materia, hay geometría."**

**Johannes Kepler**

A nautilus shell is shown in a dark, teal-toned image. The shell's spiral structure is clearly visible, with light reflecting off its surface. Overlaid on the shell are two mathematical equations in a white, serif font. The first equation,  $\Phi + 1 = \Phi^2$ , is positioned above the second equation,  $\Phi - 1 = 1/\Phi$ . The shell's spiral appears to follow the golden ratio, which is the subject of the equations.
$$\Phi + 1 = \Phi^2$$
$$\Phi - 1 = 1/\Phi$$



Cosmos

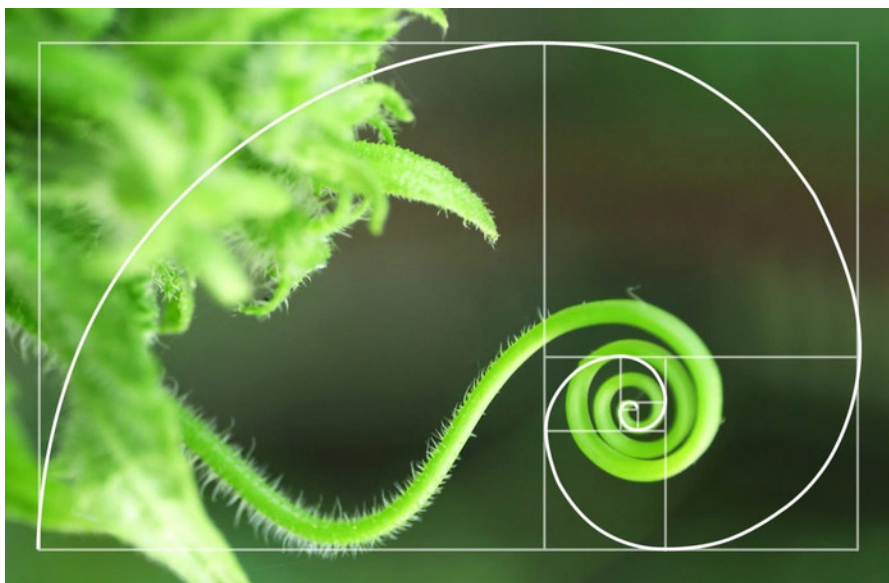
Space  
At least  
91 billion light-years  
(28 billion parsecs)  
(Diameter)

Time  
 $13.799 \pm 0.021$  billion years[

Future

Now, Present  
 $1/299,792,458$  of a second

Past





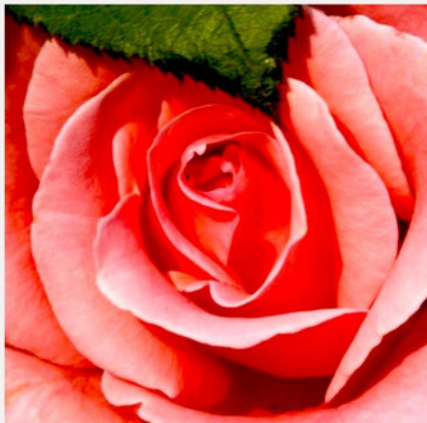
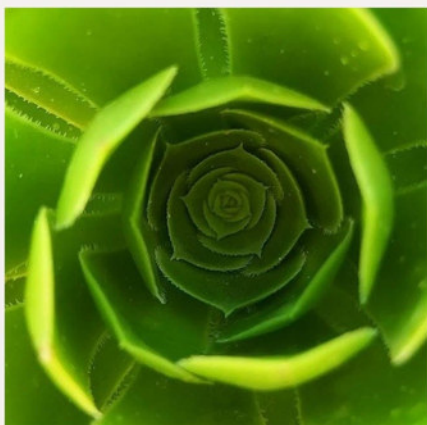


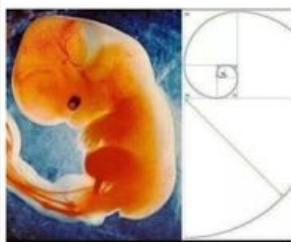
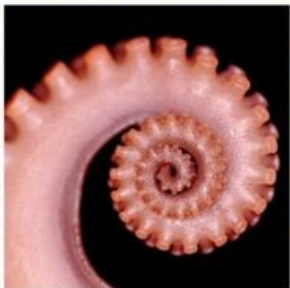
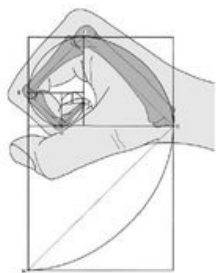








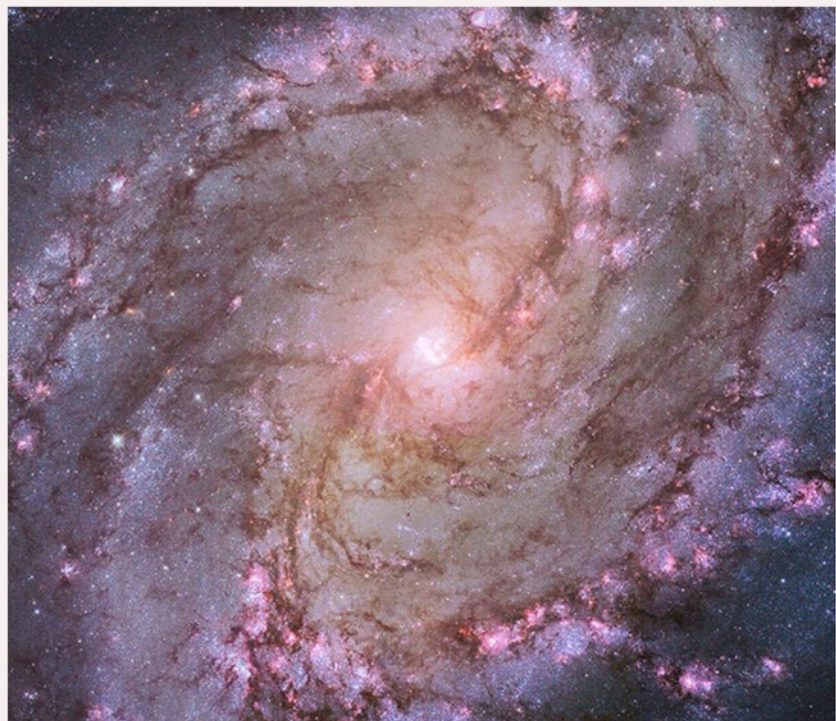












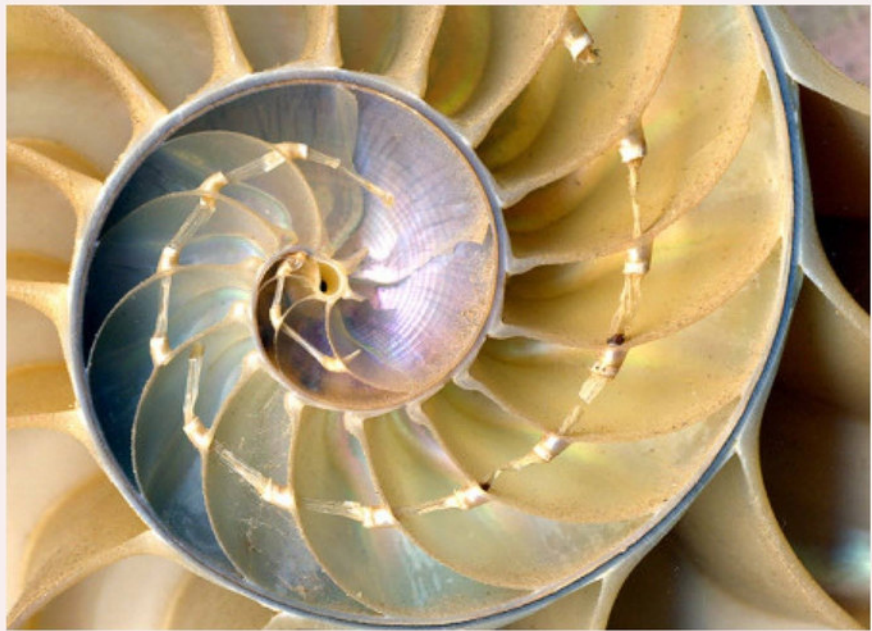
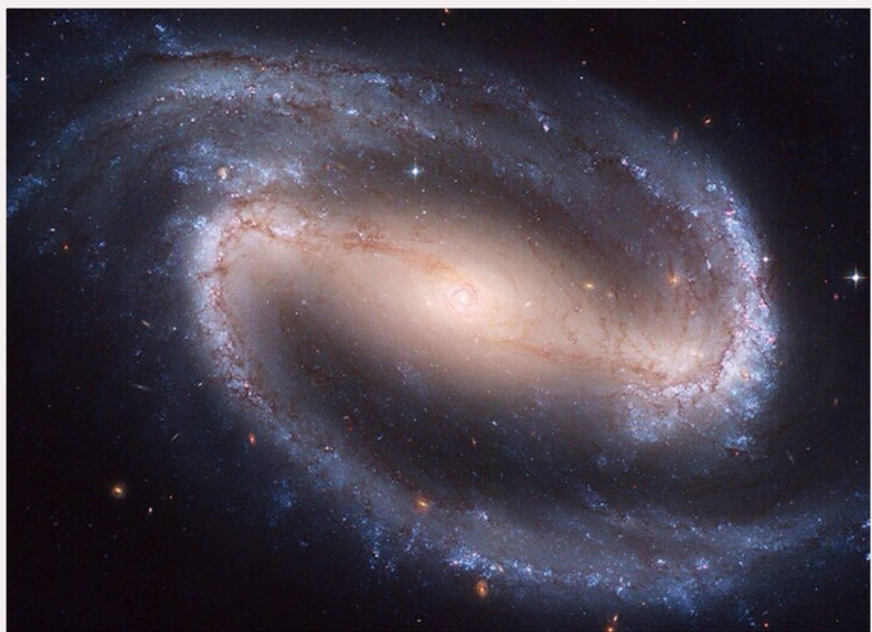










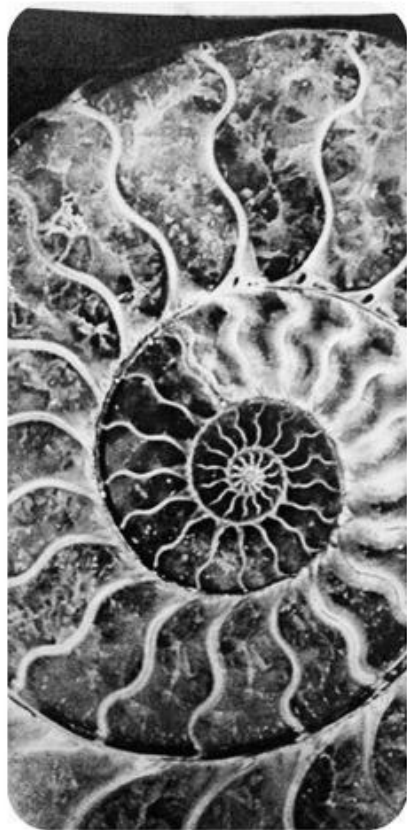












**“Every unique thing in nature is related to the whole, and partakes of the perfection of the whole. Each particle is a microcosm, and faithfully renders the likeness of the world. In geometric harmony of the cosmos there are ways that resemble, there are universal patterns, from blood vessels, to winter trees or to a river delta, from nautilus shell to spiral galaxy, from neurons in the brain to the cosmic web. A whole universe of connections is in your mind – a universe within a universe – and one capable of reaching out to the other that gave rise to it. Billions of neurons touching billions of stars – surely spiritual.”**

**\*\*\***

**“Cada cosa única en la naturaleza está relacionada con el todo y participa de la perfección del todo. Cada partícula es un microcosmos y reproduce fielmente la imagen del mundo. En la armonía geométrica del cosmos hay formas que se asemejan, hay patrones universales, desde los vasos sanguíneos hasta los árboles en invierno o el delta de un río, desde la concha de un nautilus hasta la galaxia espiral, desde las neuronas del cerebro hasta la red cósmica. Todo un universo de conexiones está en tu mente –un universo dentro de un universo– y cada una de ellas capaz de llegar a la otra que le dio origen. Miles de millones de neuronas tocando miles de millones de estrellas –seguramente espirituales.”**

**Alejandro Mos Riera**





# Tree stump and human fingerprint



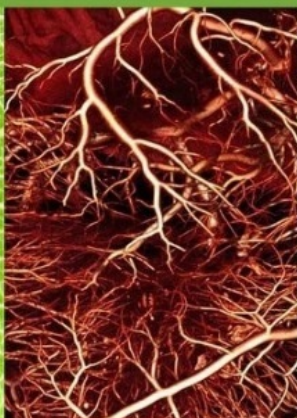




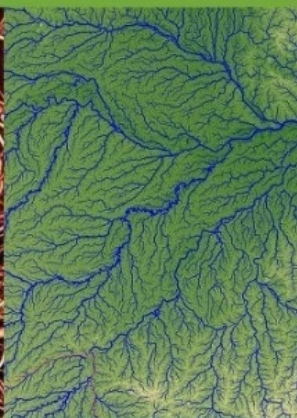
# WE ARE NATURE



Close-up of a small leaf



Blood vessels of a human heart



River network of the Amazon



**“Todo lo que sabemos es que somos ramas en el árbol de la vida; lo que ignoramos es el bosque de estrellas.”**

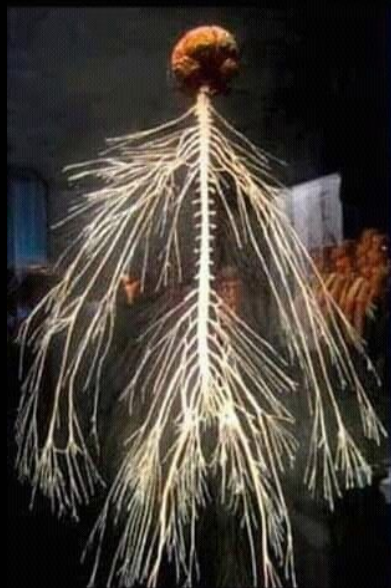
**Alejandro Mos Riera**







SISTEMA NERVOSO HUMANO

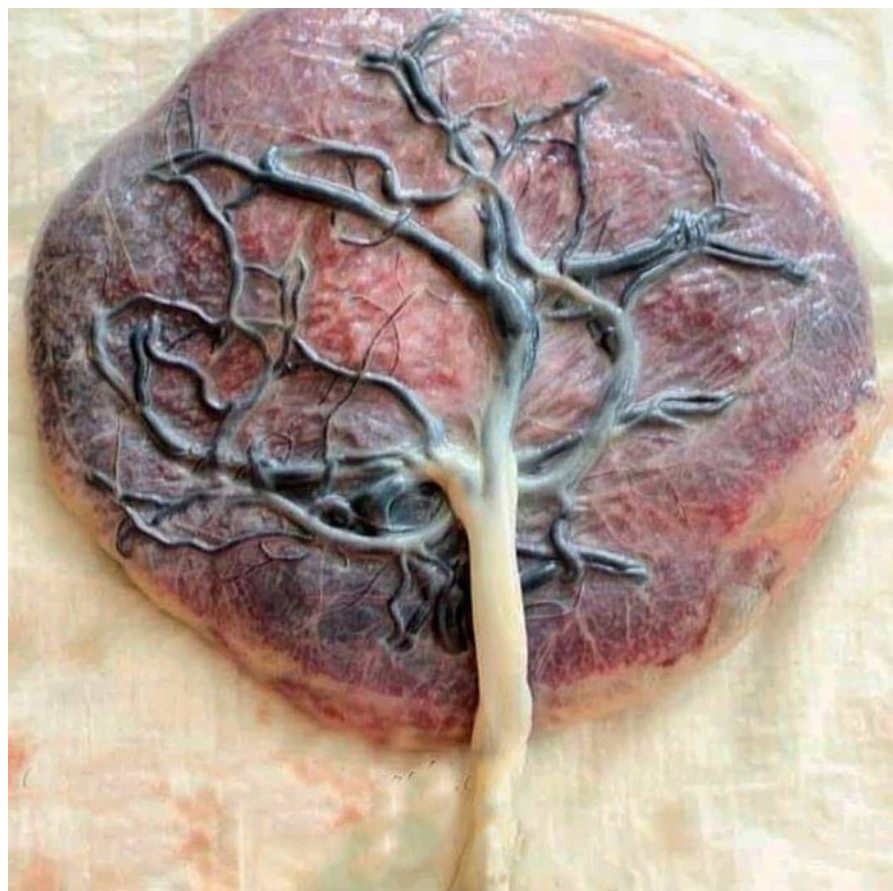


RELÂMPAGO



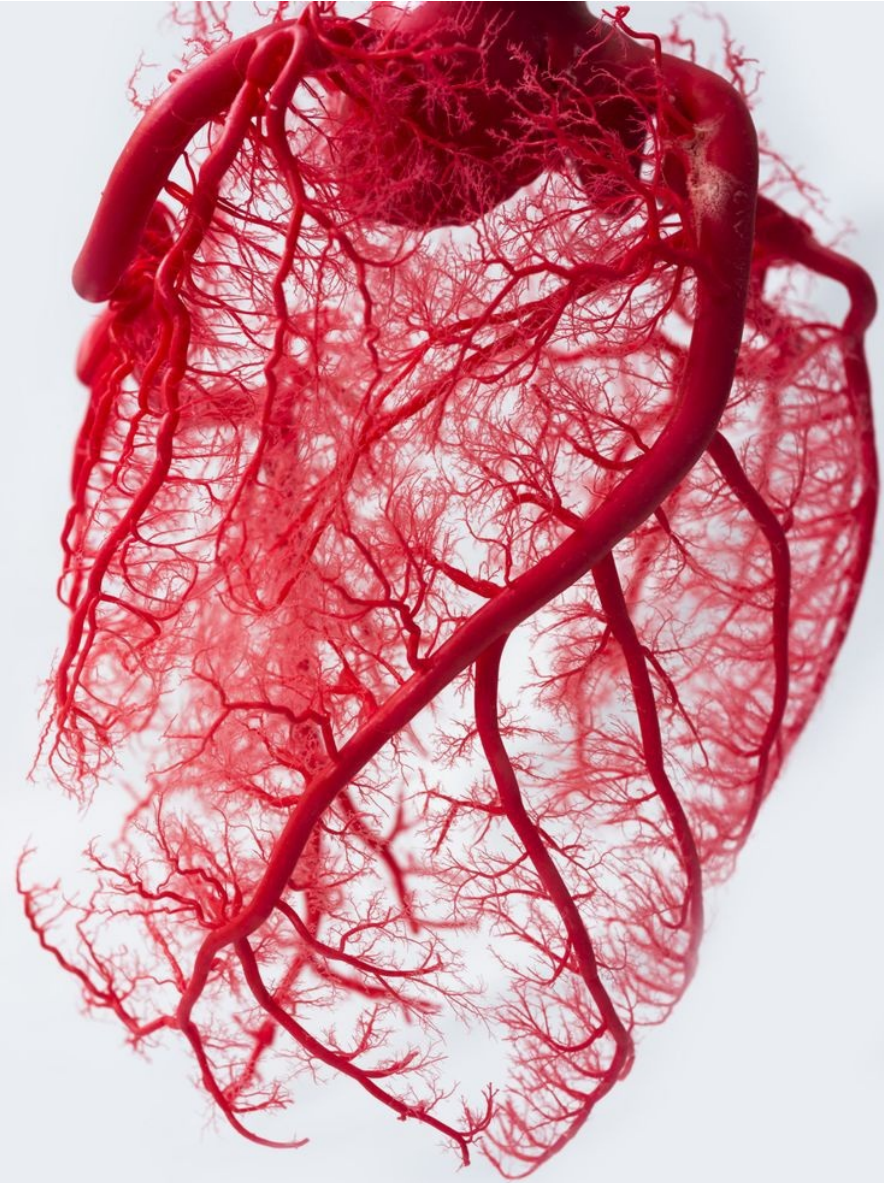








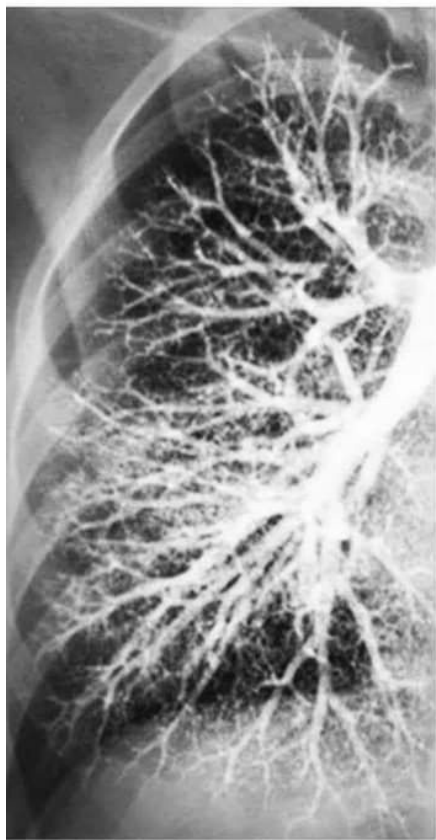








This is a lung.



This is a tree.



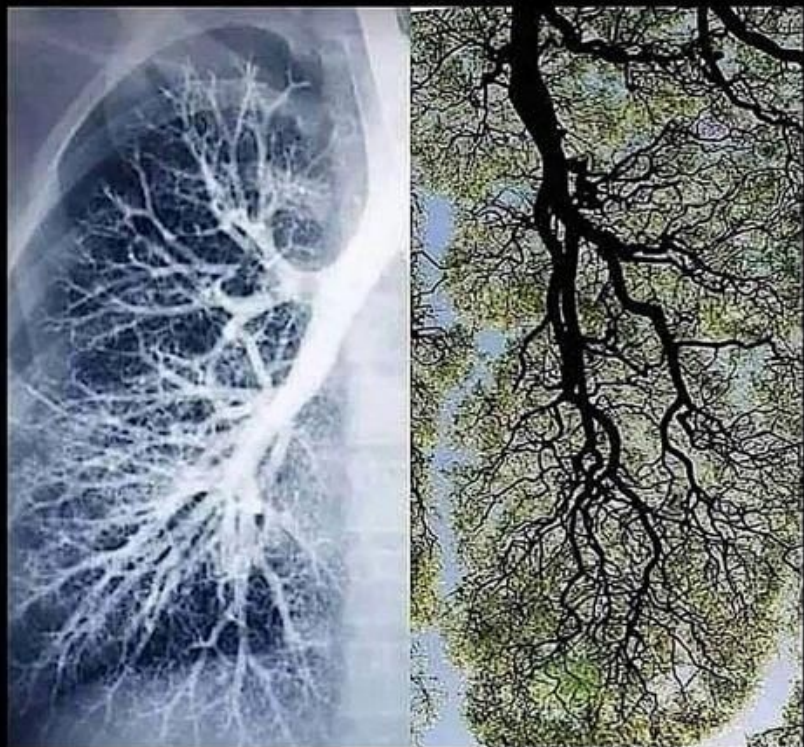
This is a lung.



This is a tree.



@animamundiherbals

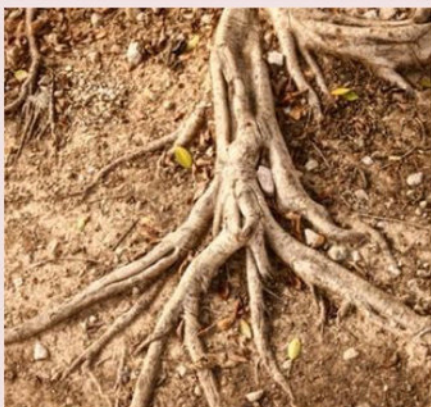
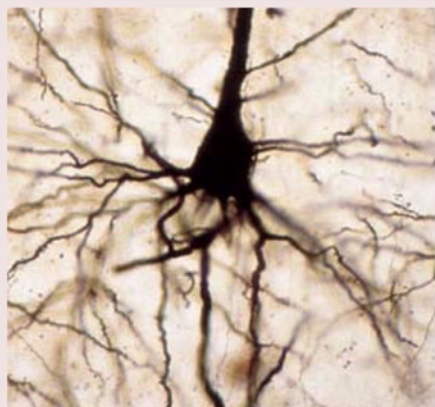
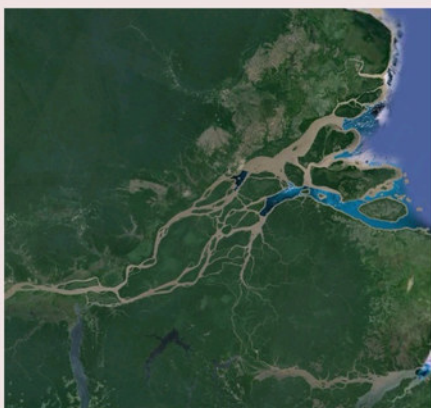


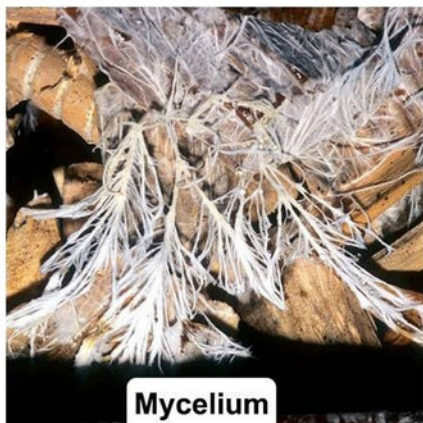
*We breathe in what plants and  
trees breathe out, and they  
breathe in what we breathe out.  
All life is interconnected.*







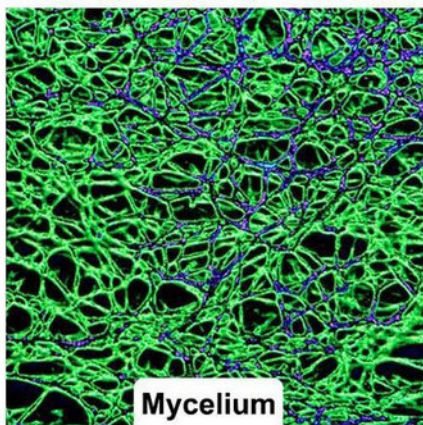




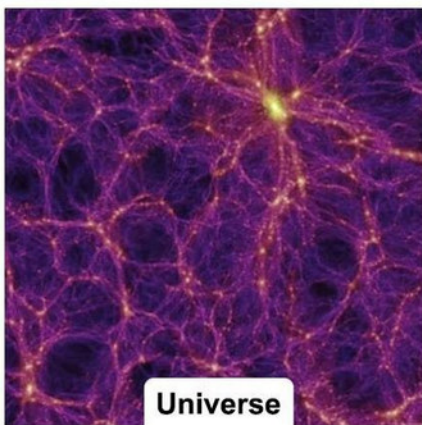
**Mycelium**



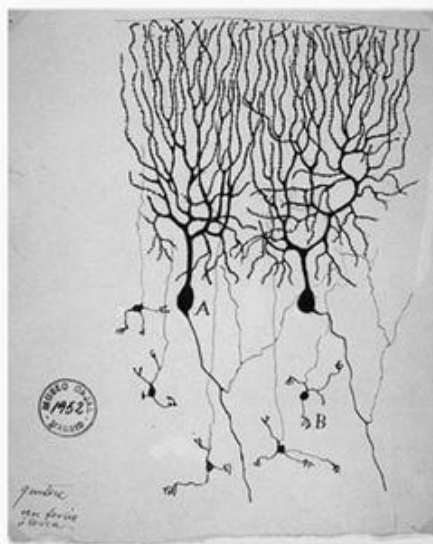
**Mycelium**



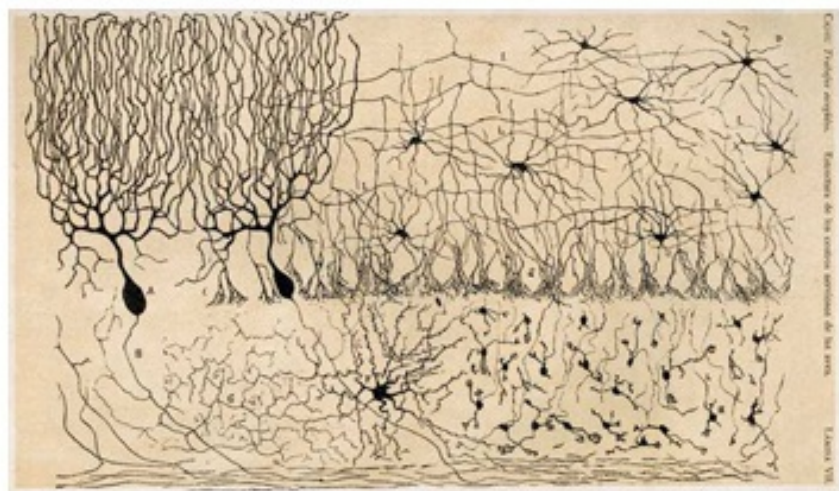
**Mycelium**

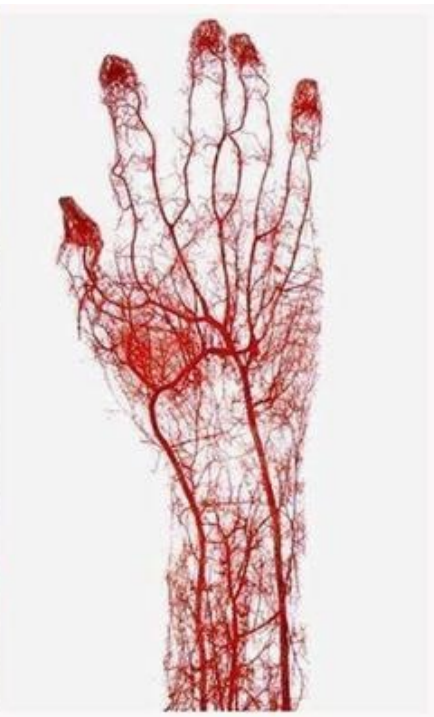


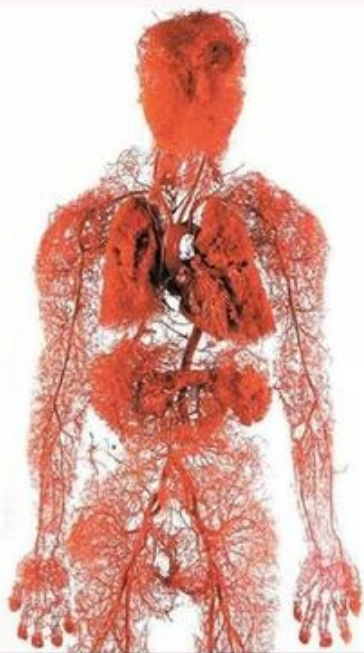
**Universe**

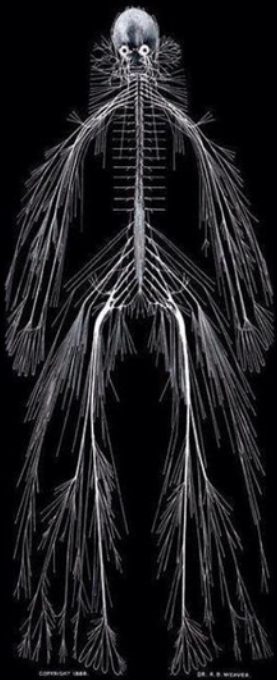










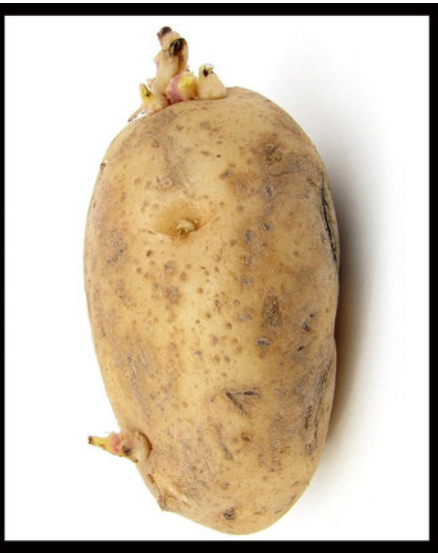
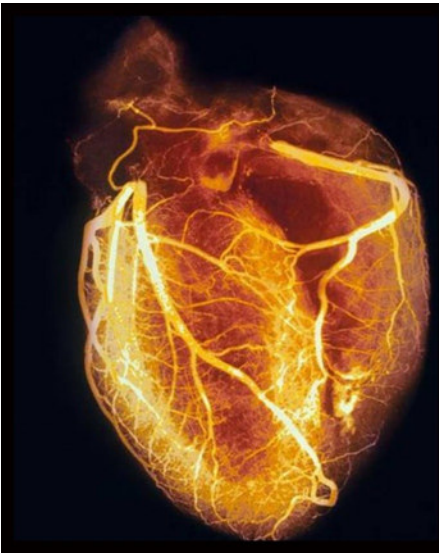


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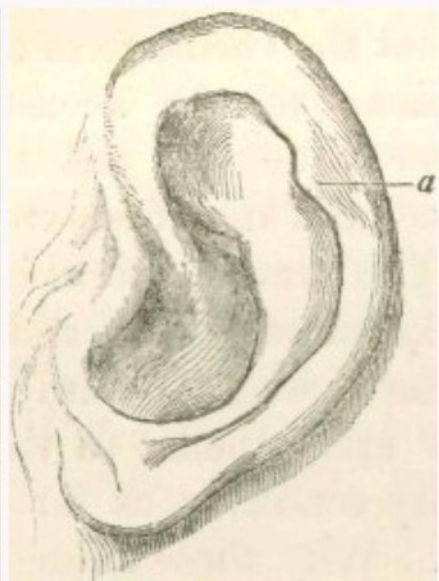










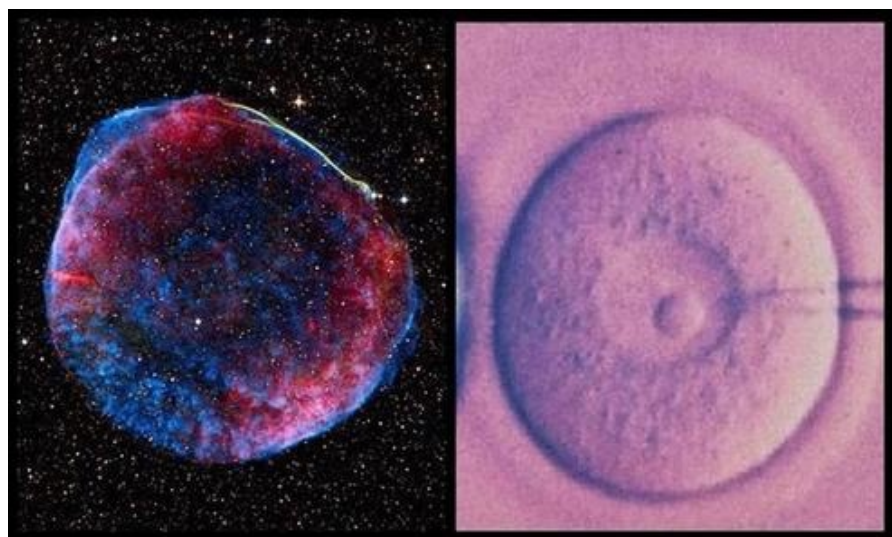












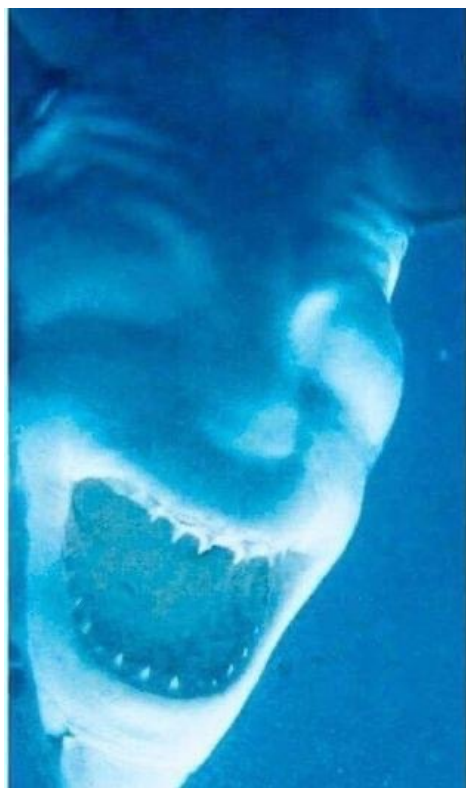


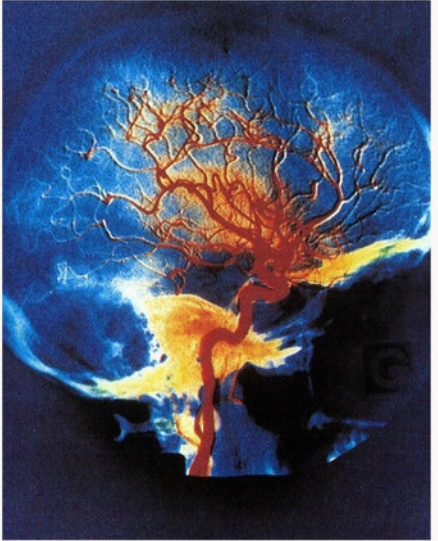


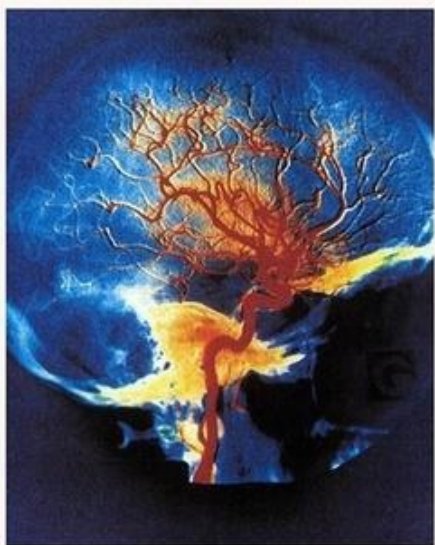




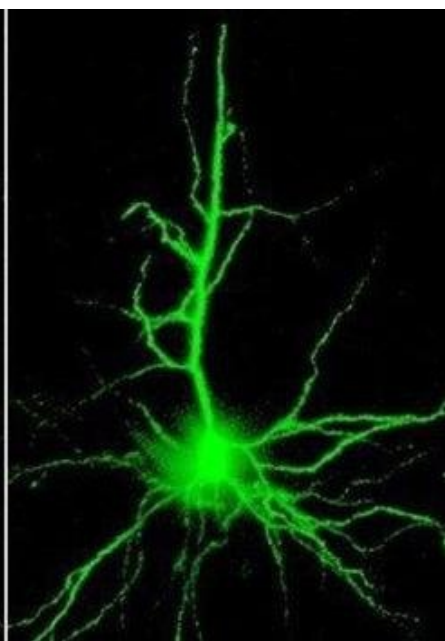


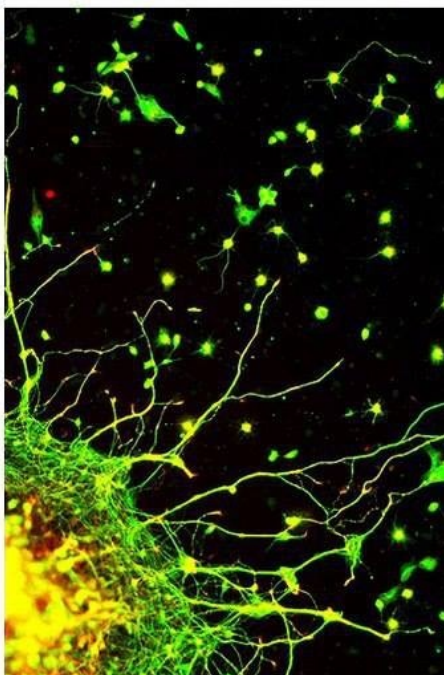
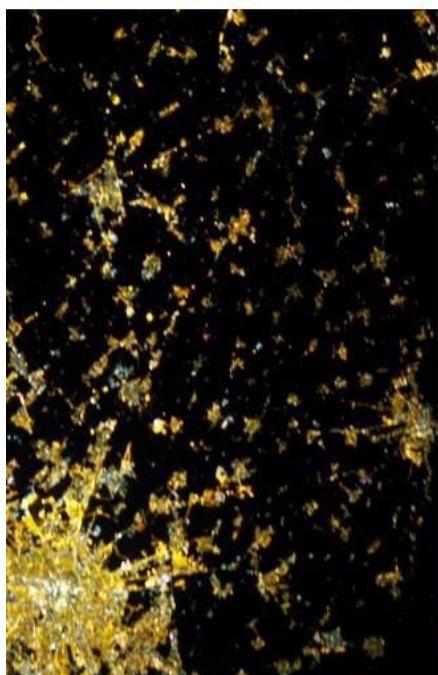
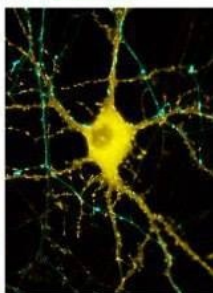
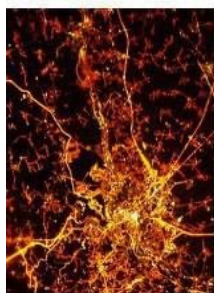
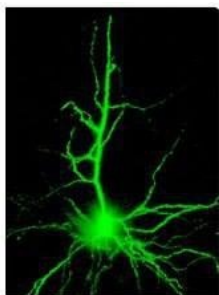














**Cosmos**

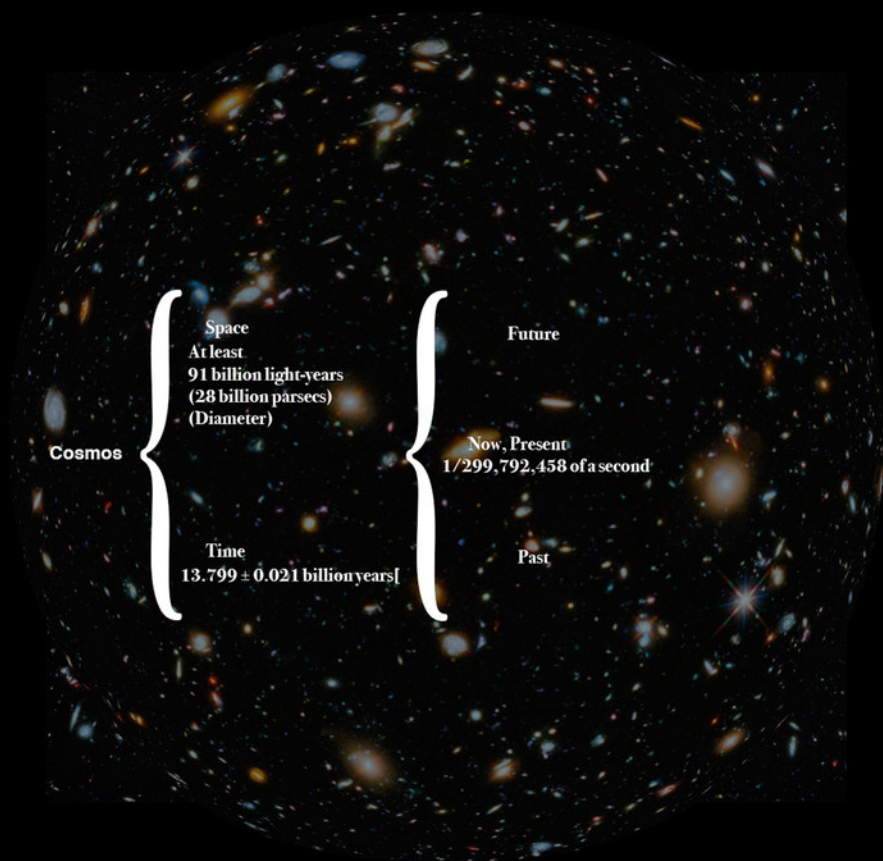
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Now, Present  
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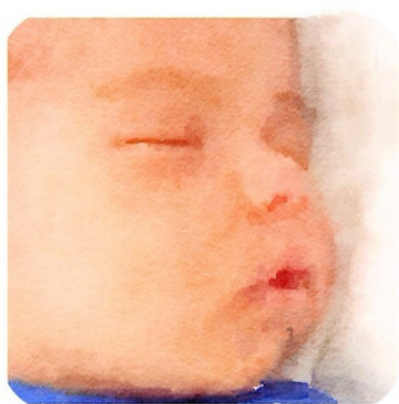




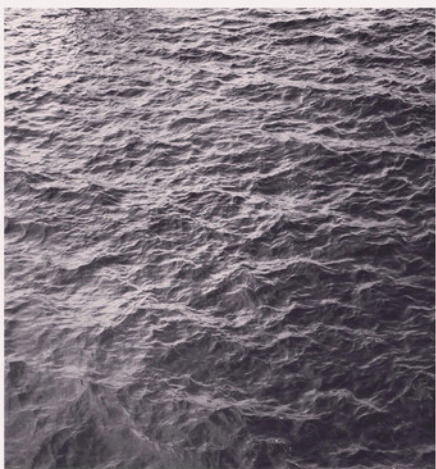










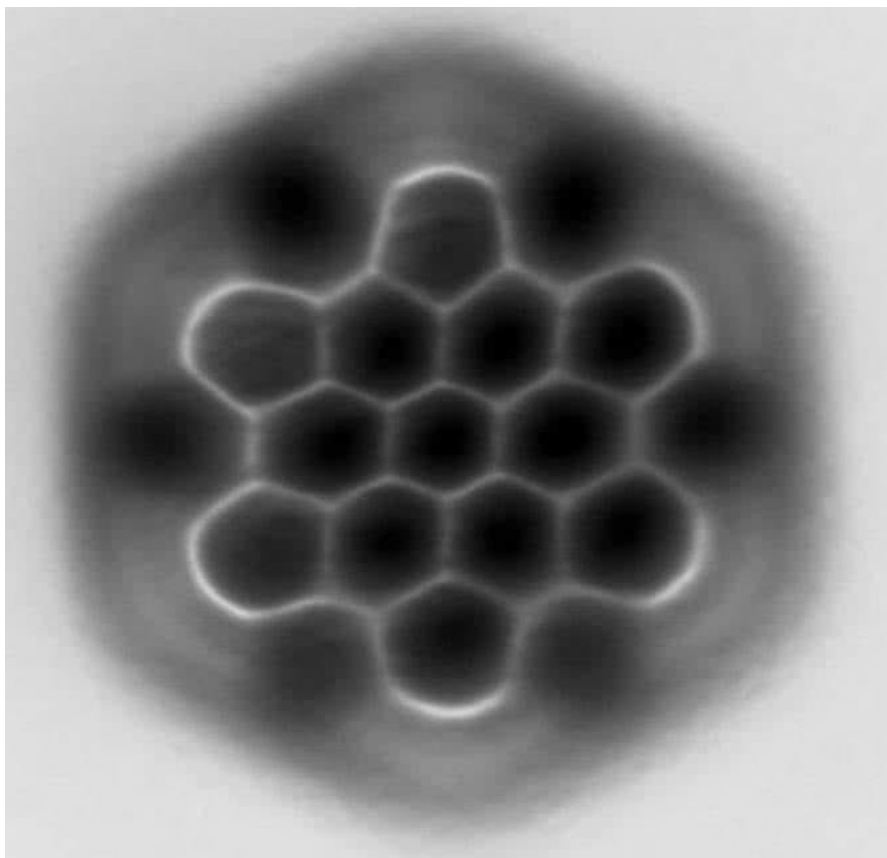






**"Geometry is the language of time."**

**Khalid Masood**



**Molécula de carbono**



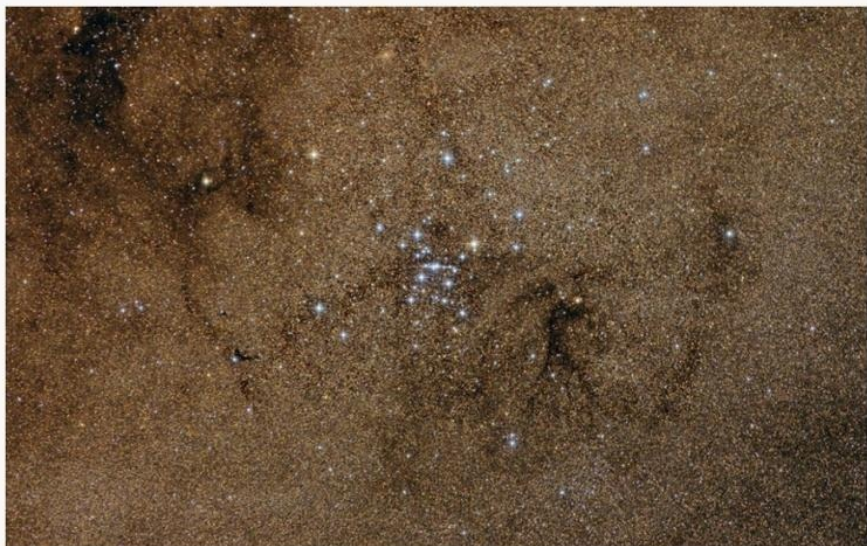
**Abejas en panal de miel**

**There are 5-10 times more stars in the known Universe than there are grains of sand on all the world's beaches, but a single grain of sand has more atoms than there are stars in the known Universe.**

**\*\*\***

**Hay cinco o diez veces más estrellas en el universo conocido que hay granos de arena en todas las playas del mundo, sin embargo un solo grano de arena tiene más átomos que estrellas hay en el universo conocido.**

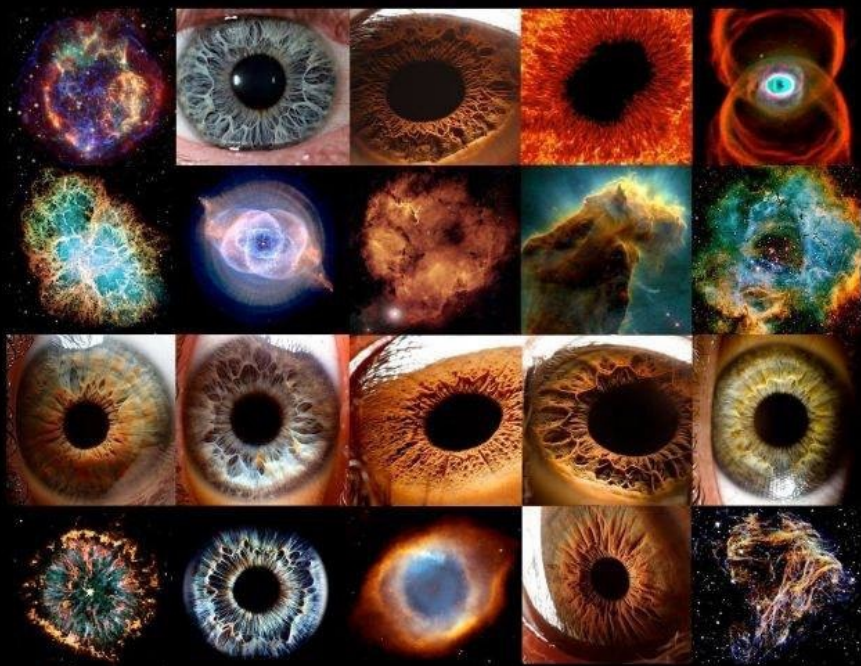








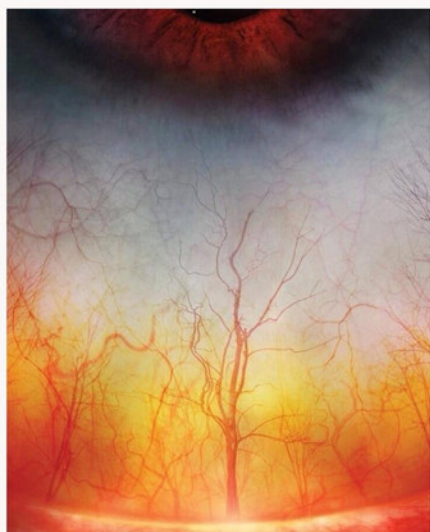


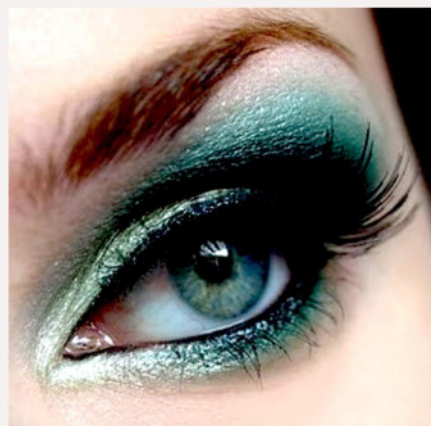
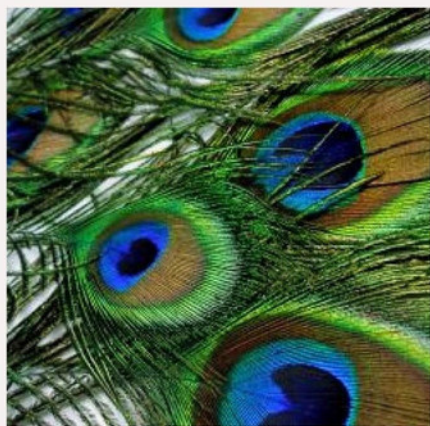




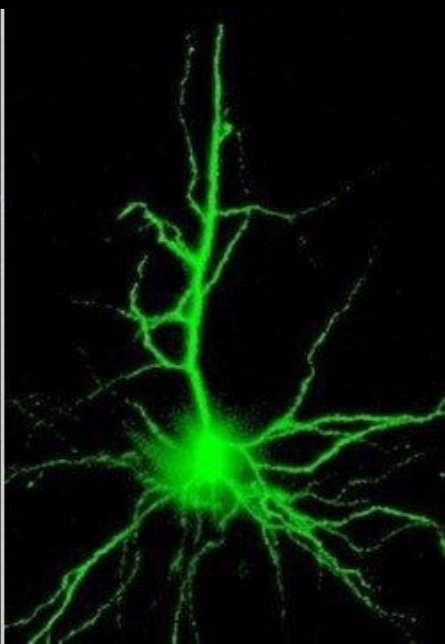




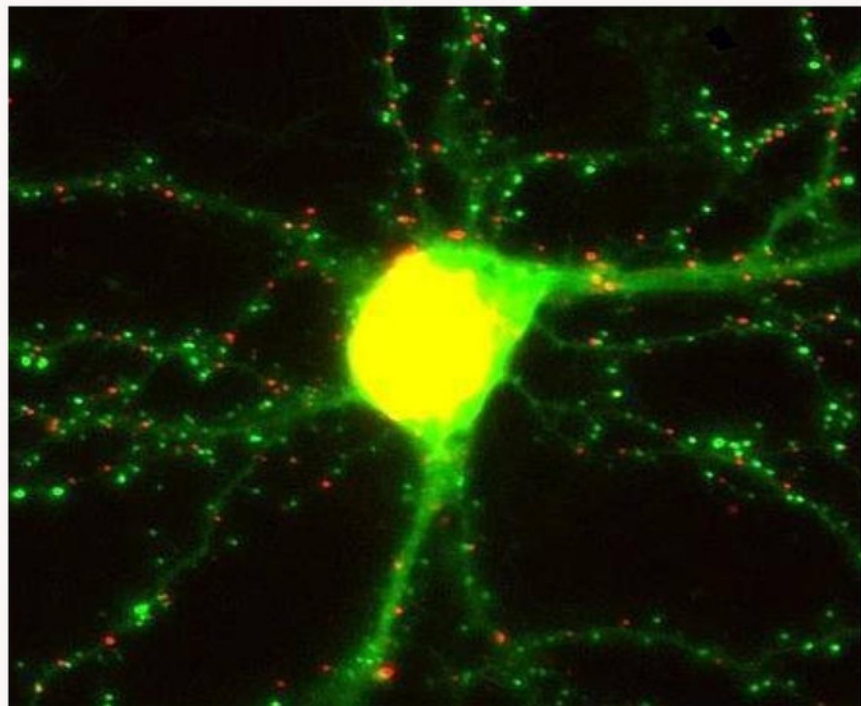




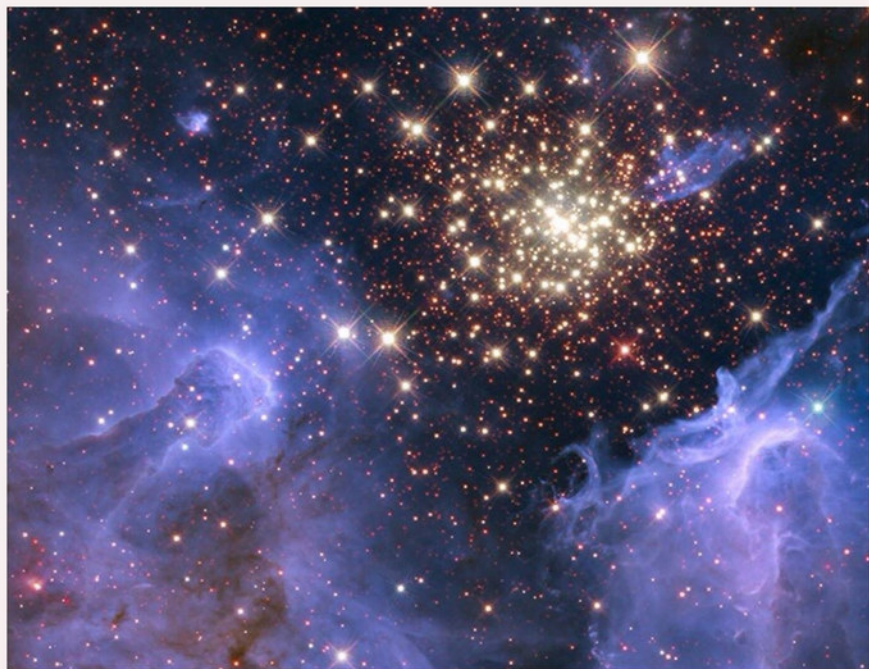






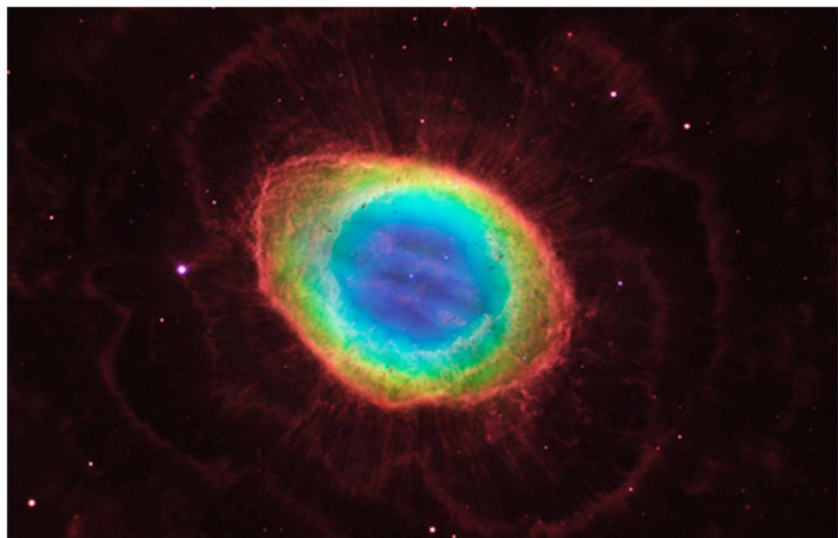




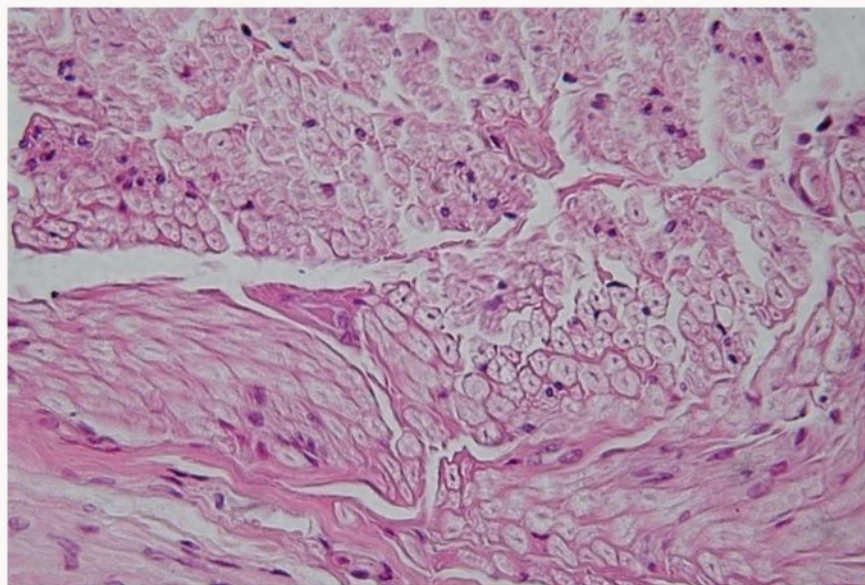


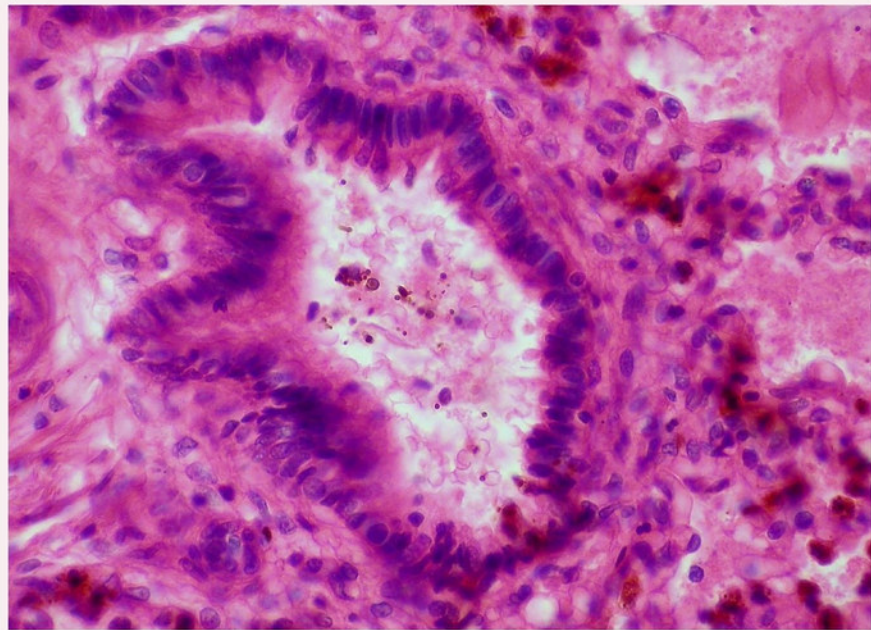
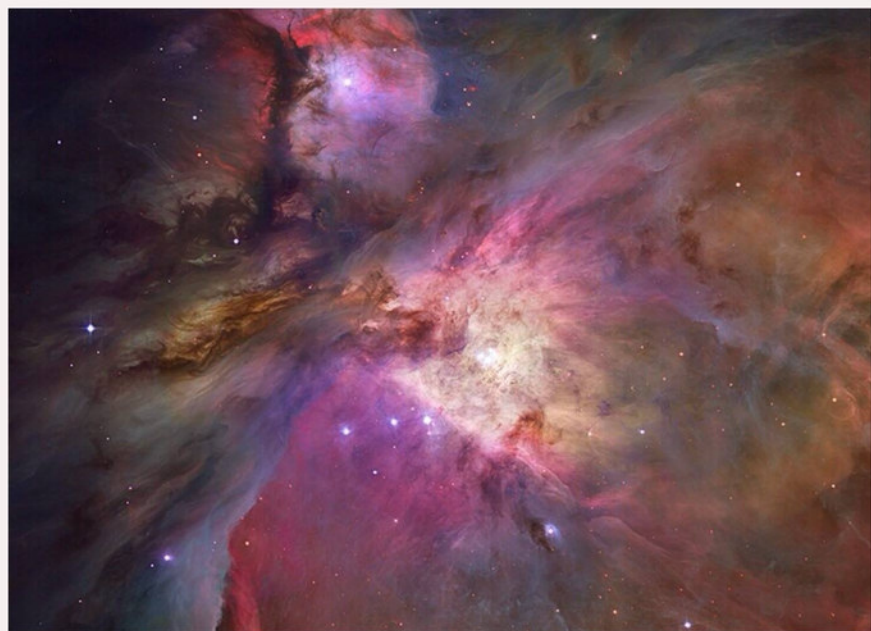




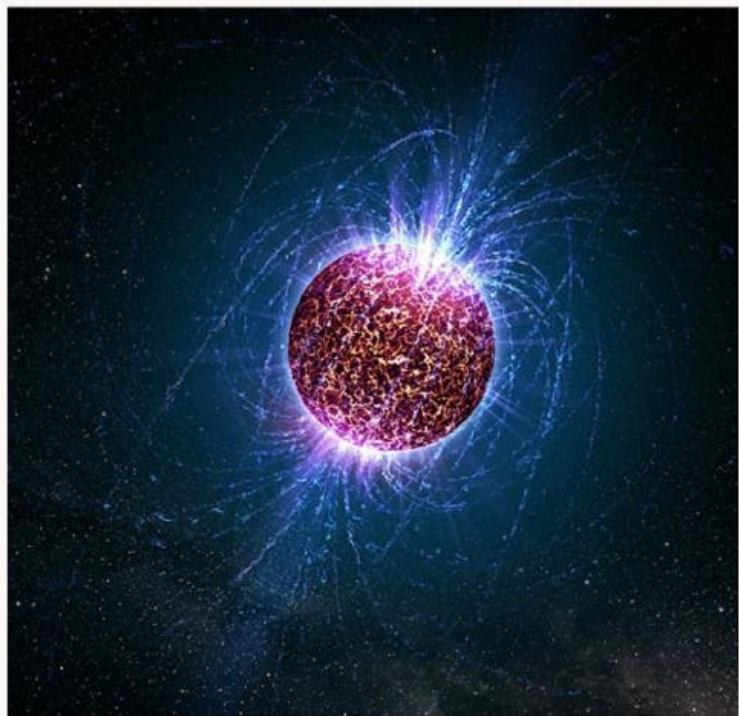


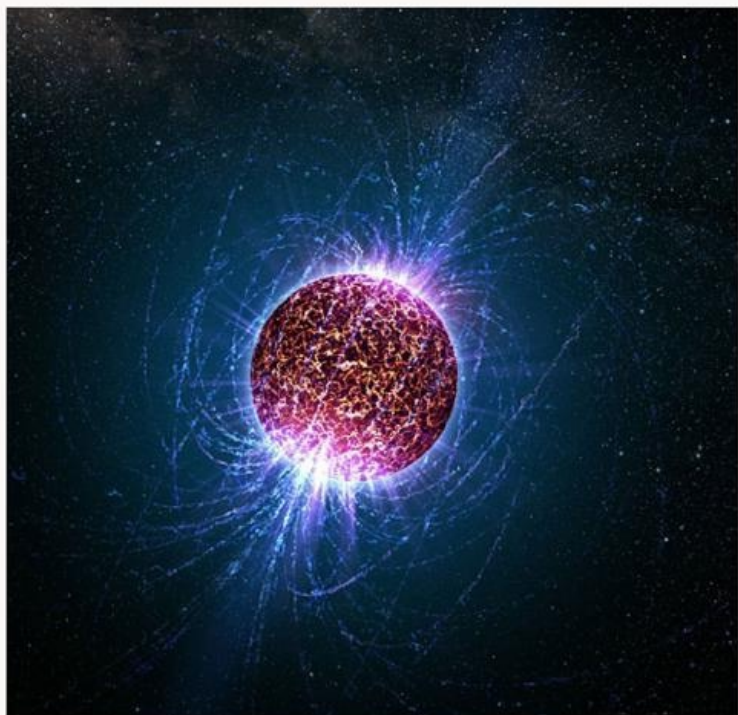


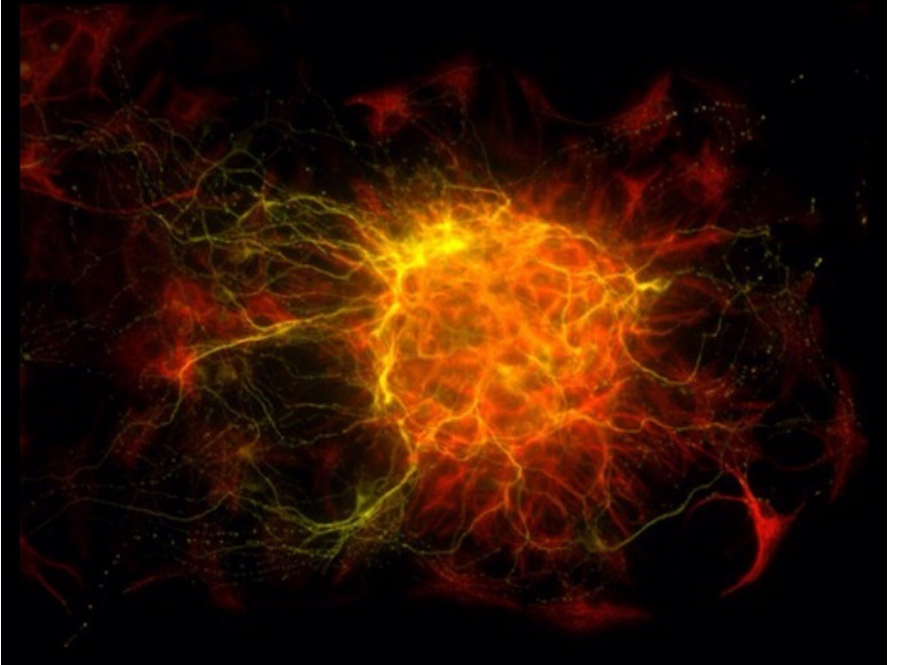




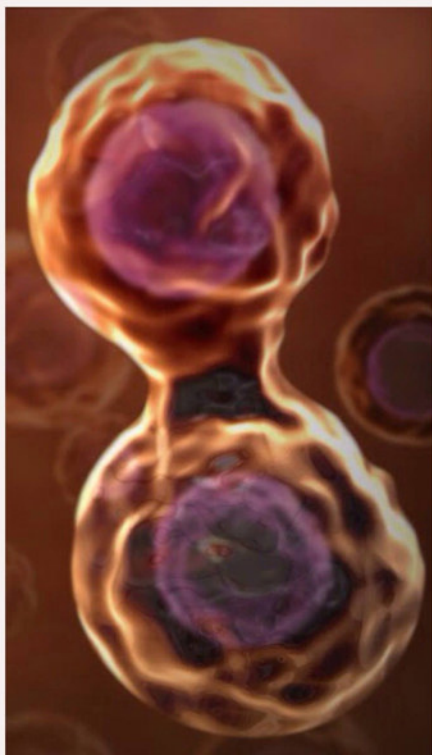


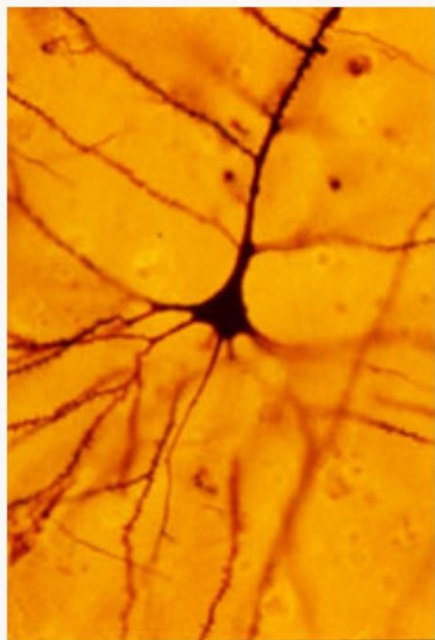






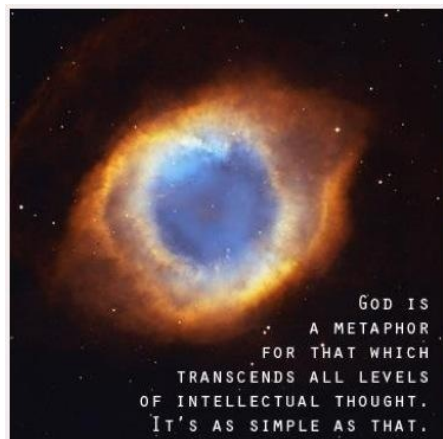




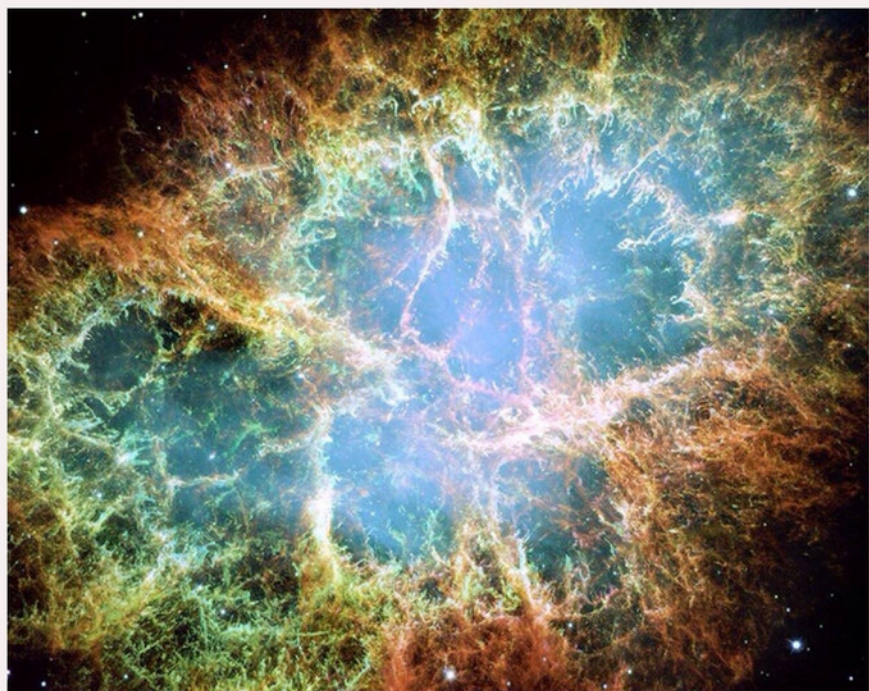


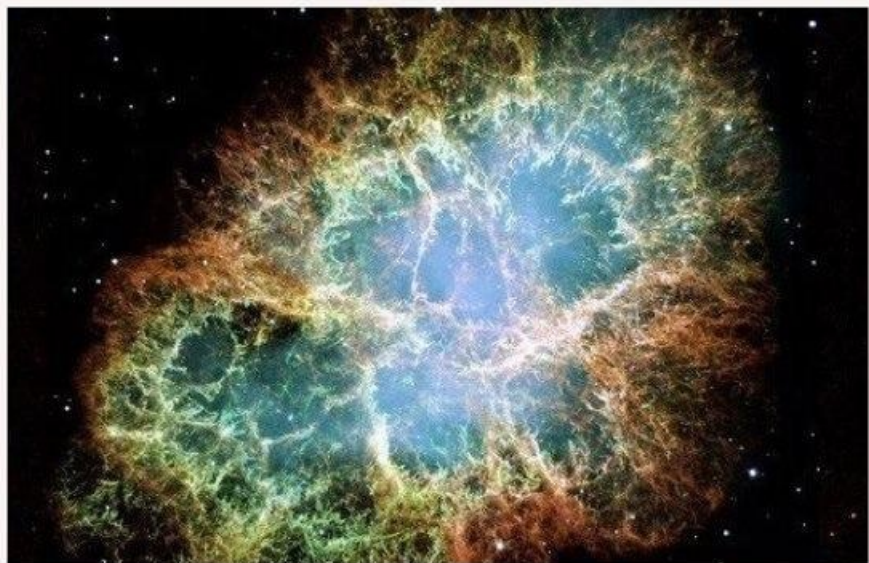








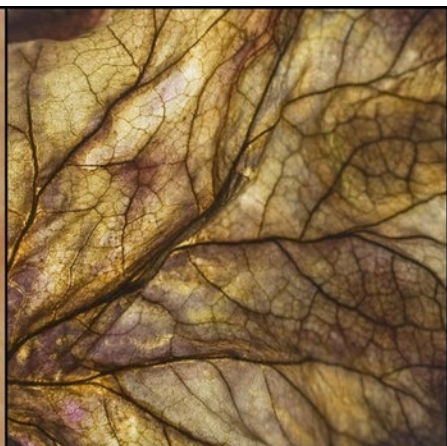
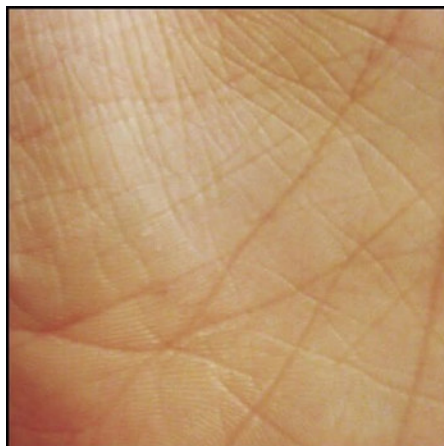




**The infinite is within a finite space, like time and space for each particle in the entire cosmos.**

**\*\*\***

**El infinito está el interior de un espacio finito, como el tiempo y el espacio en cada partícula de todo el universo.**



















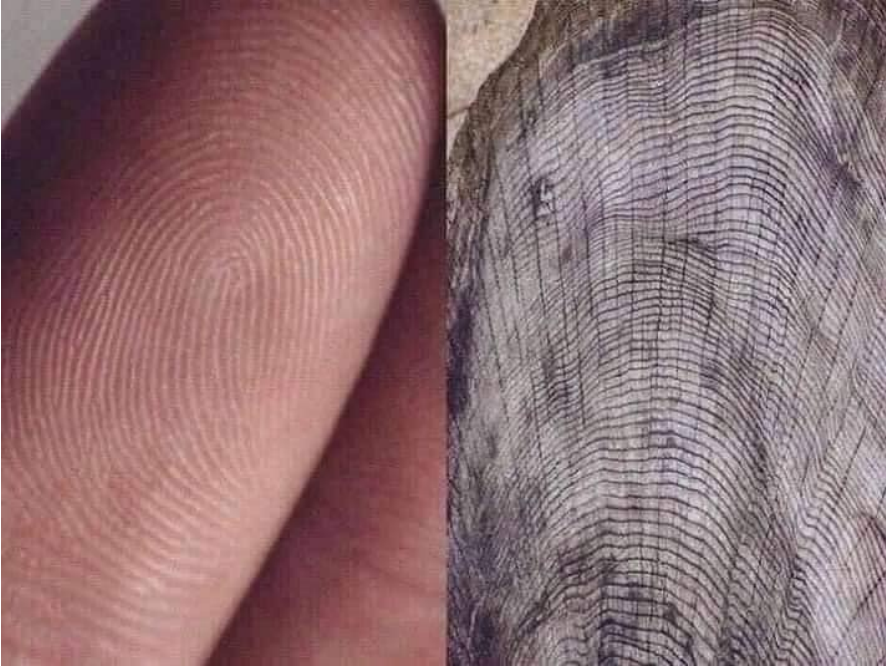
















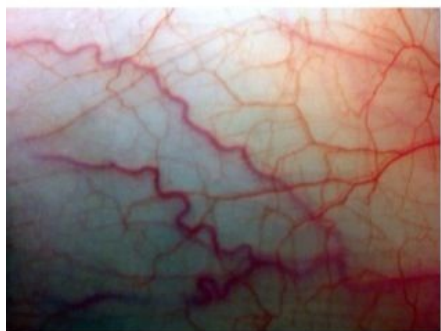










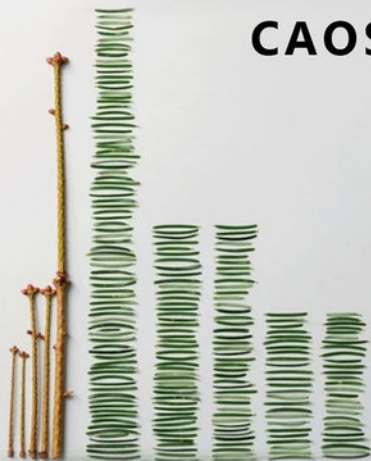




**ORDEM**



**CAOS**

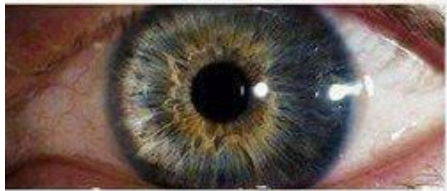




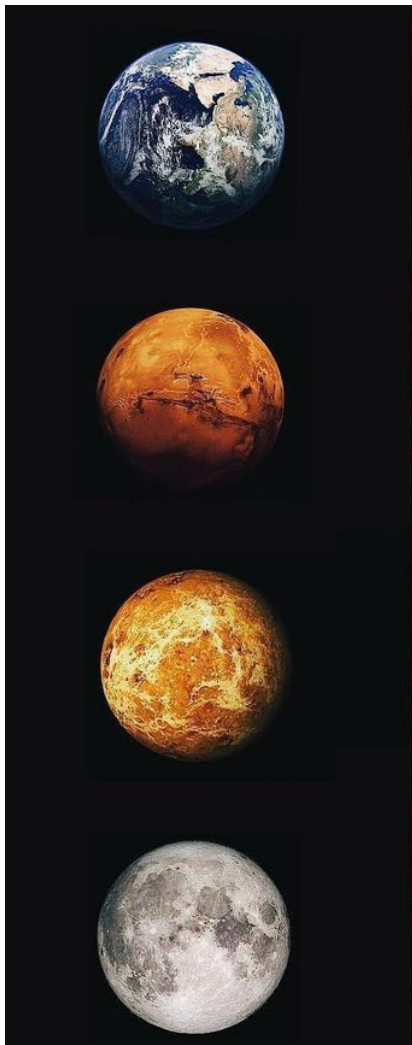
**“Learn how to see. Realize that everything connects to everything else.”**

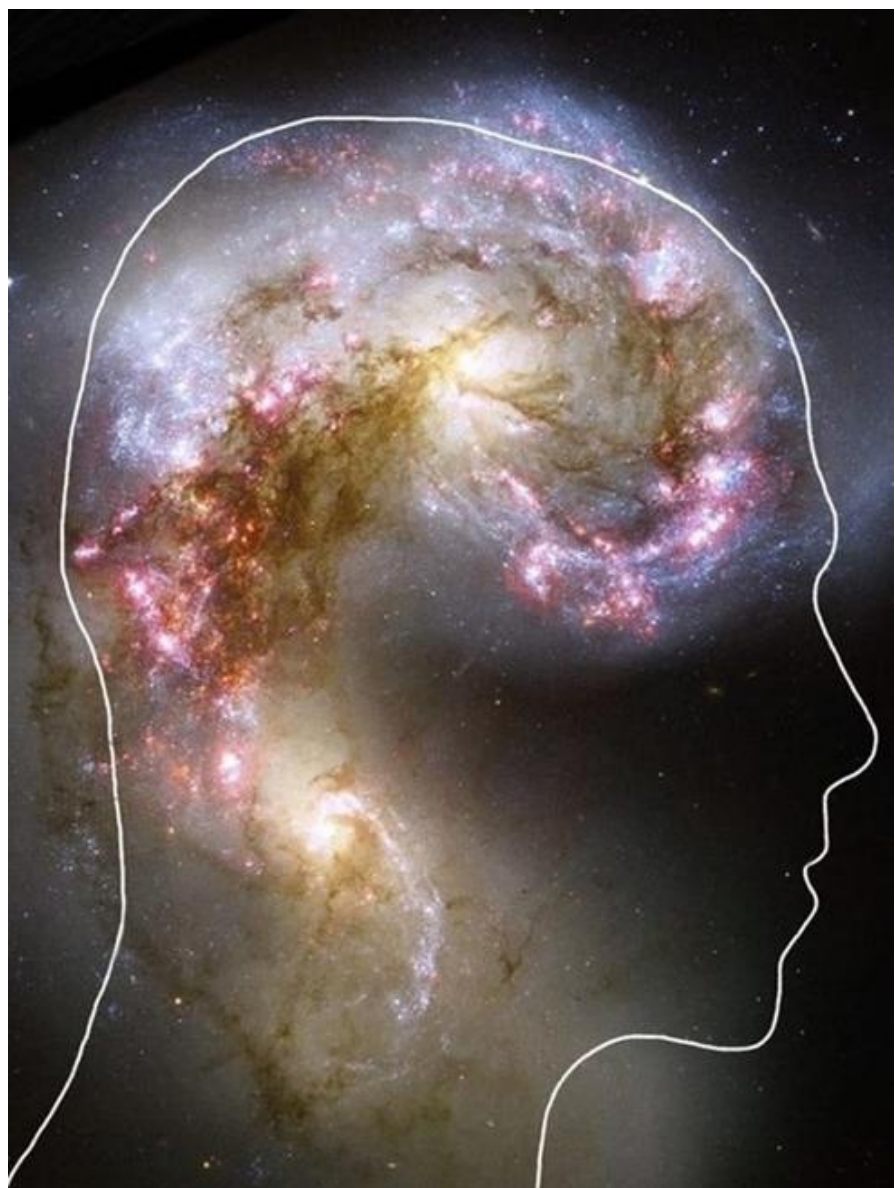
**"Todo de alguna manera se conecta con todo lo demás."**

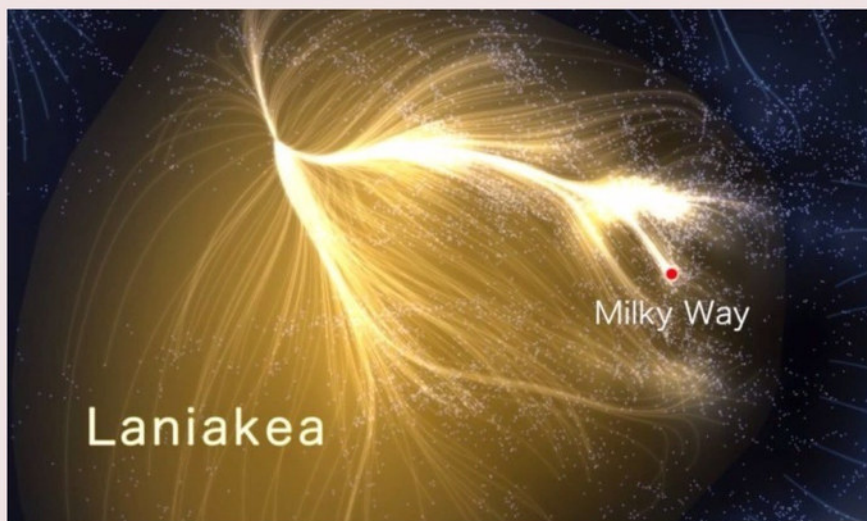
**Leonardo Da Vinci**



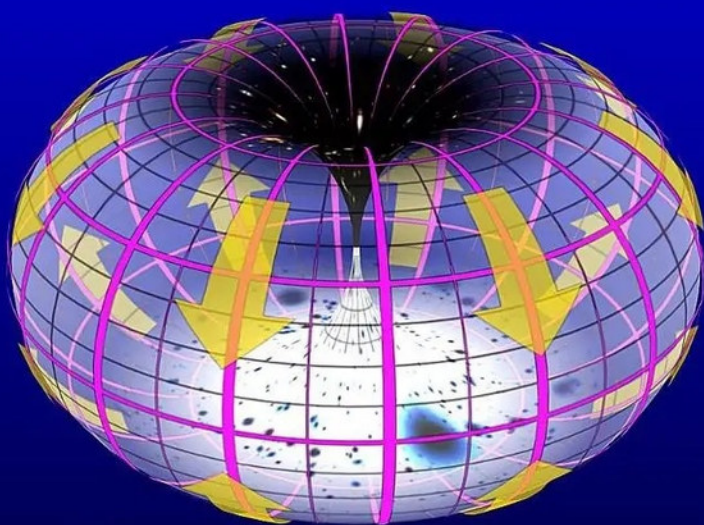




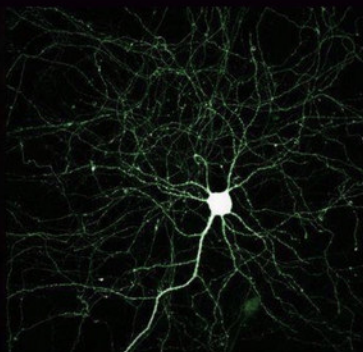




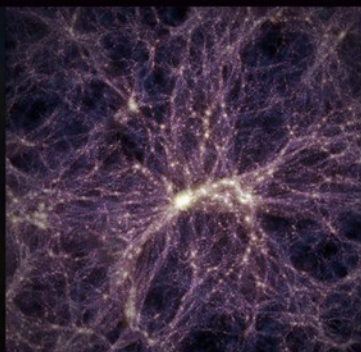




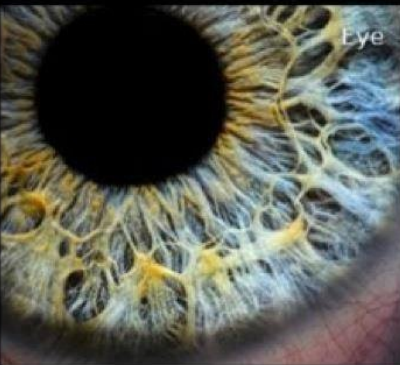
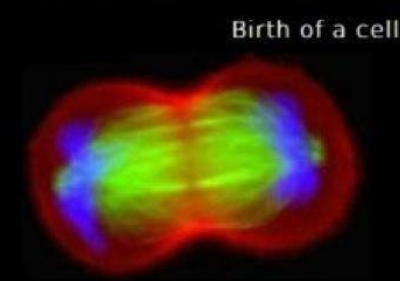
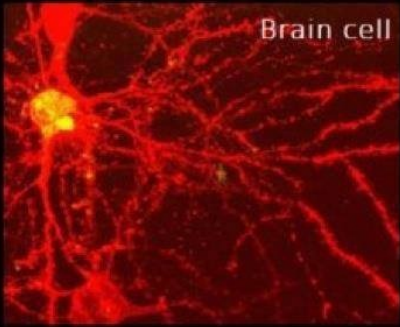




Red de neuronas  
(cerebro humano)



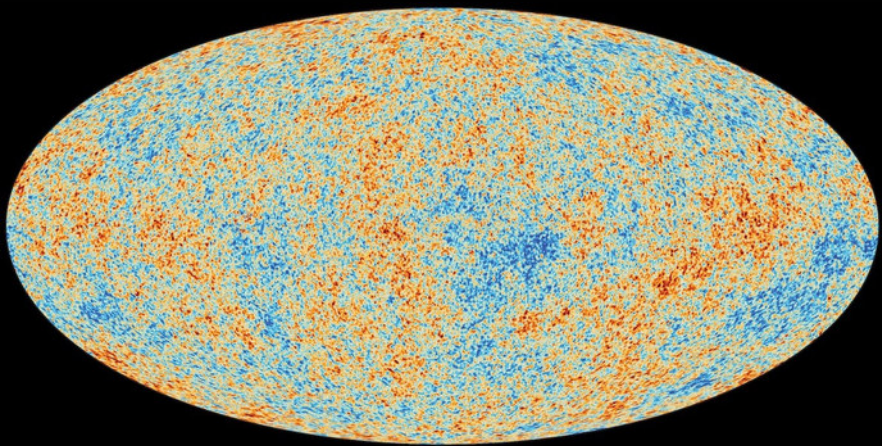
Red cósmica  
(cúmulos de galaxias y filamentos)



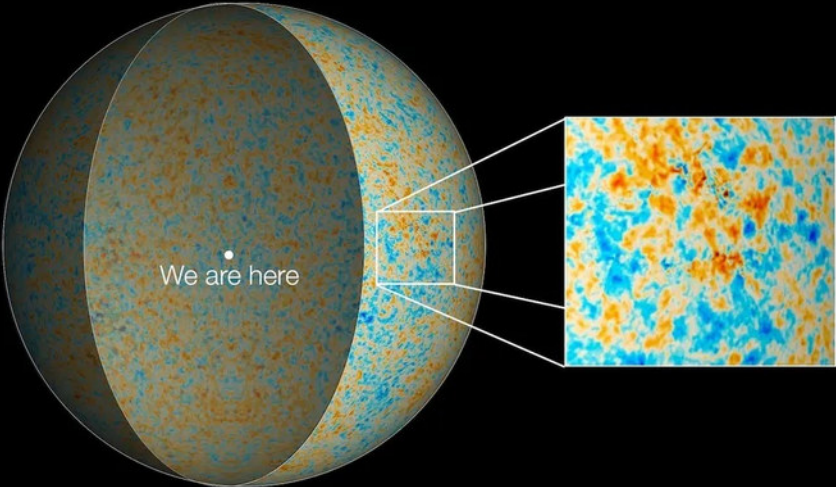


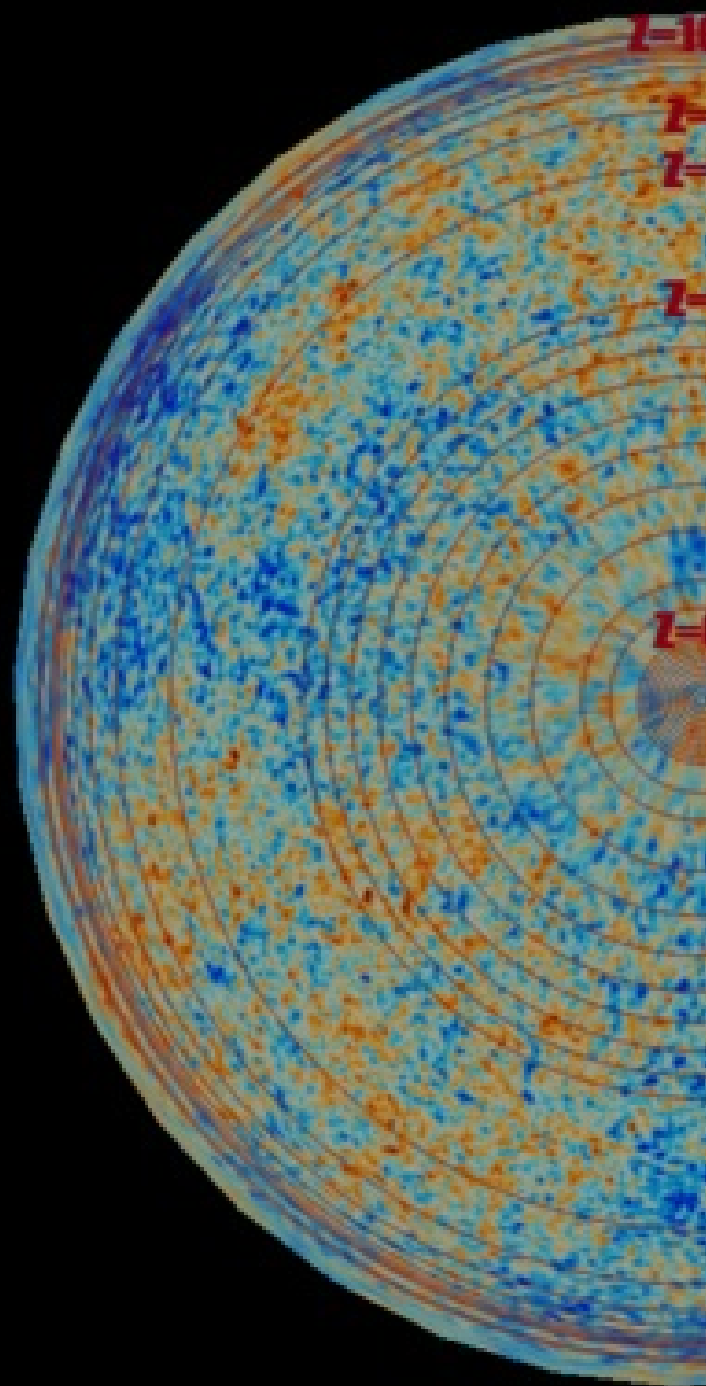
**Every particular in nature, a leaf, a drop, a crystal, a moment of time is related to the whole, and partakes of the perfection of the whole. Each particle is a microcosm, and faithfully renders the likeness of the world.**

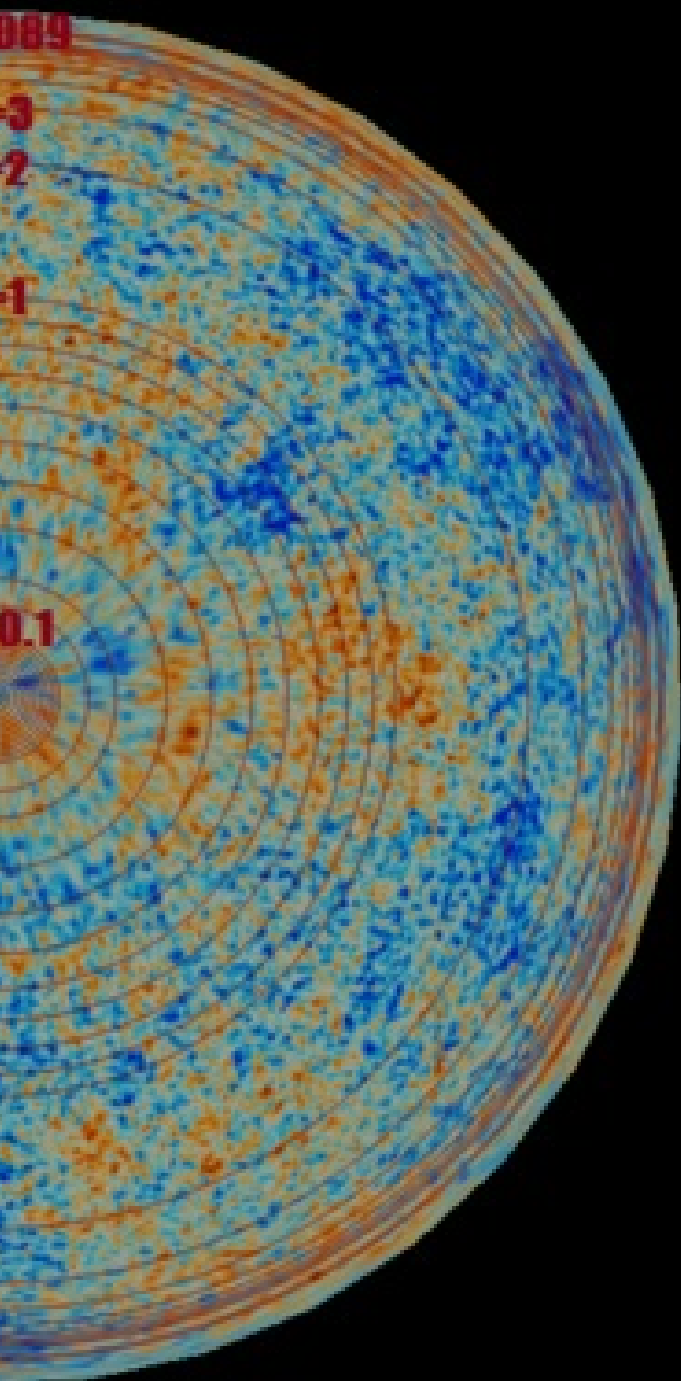
**Ralph Waldo Emerson**



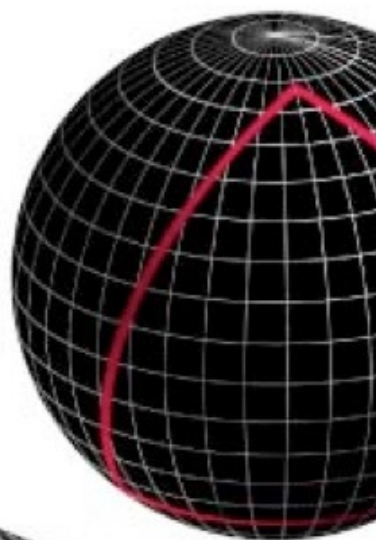




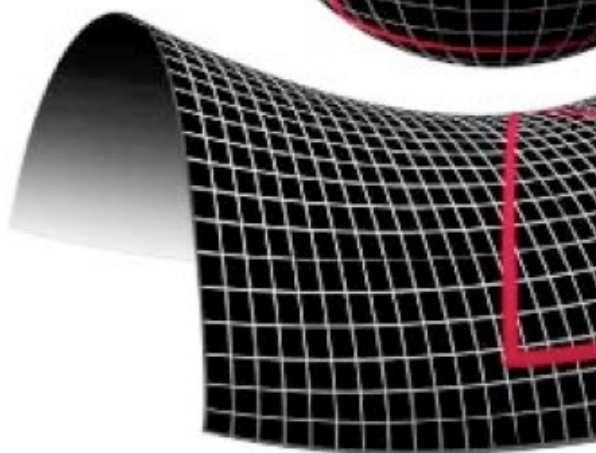




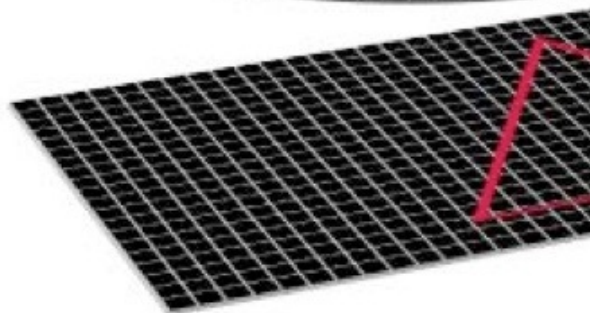
$$\Omega_0 > 1$$

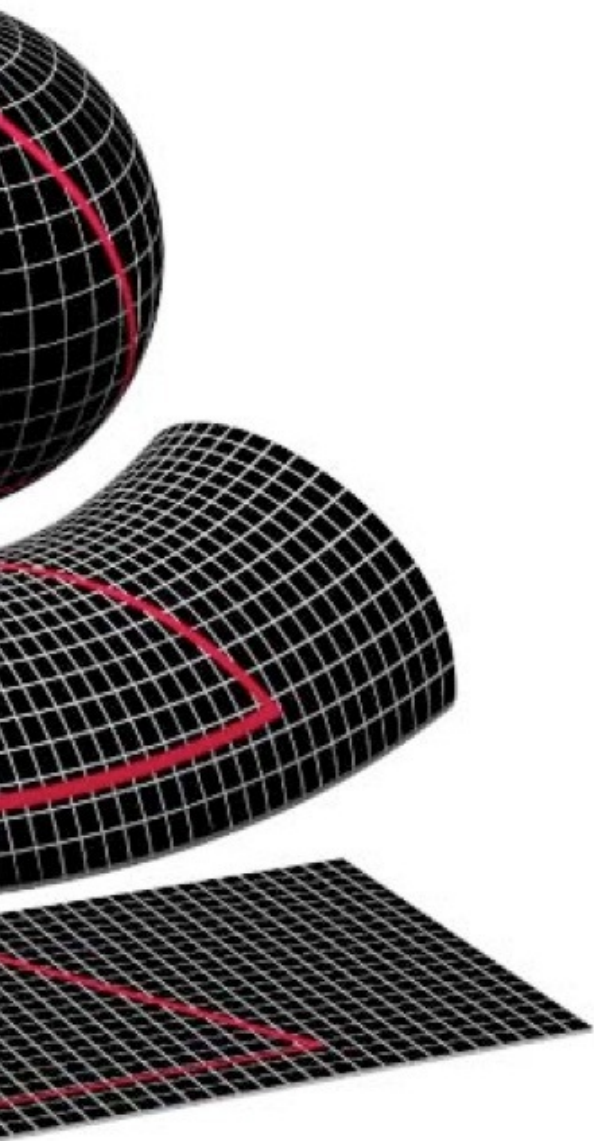


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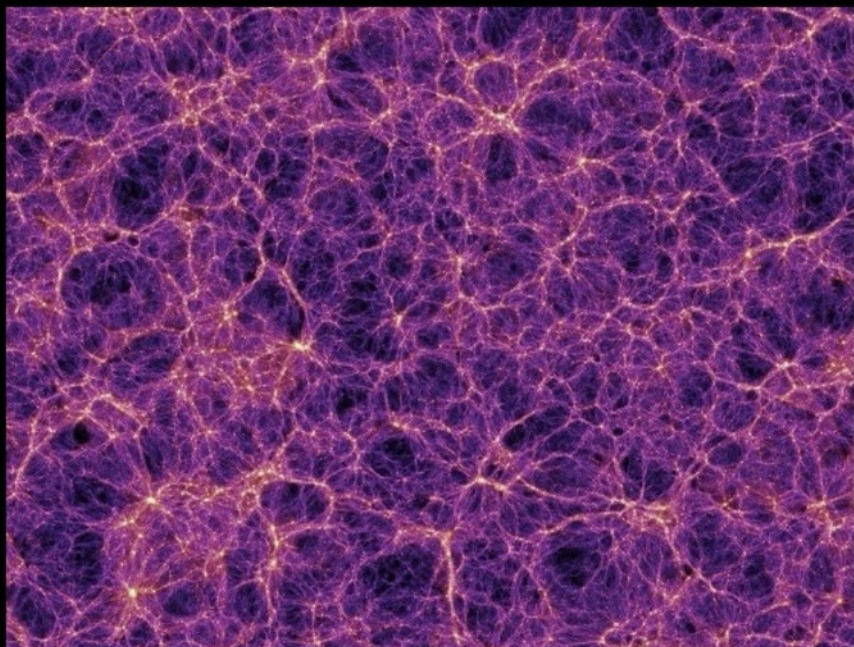
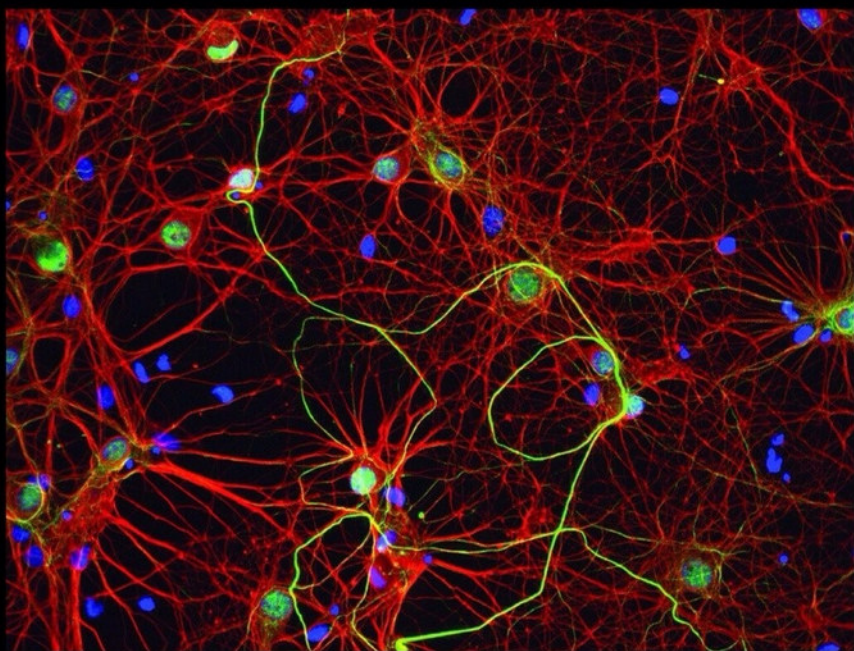


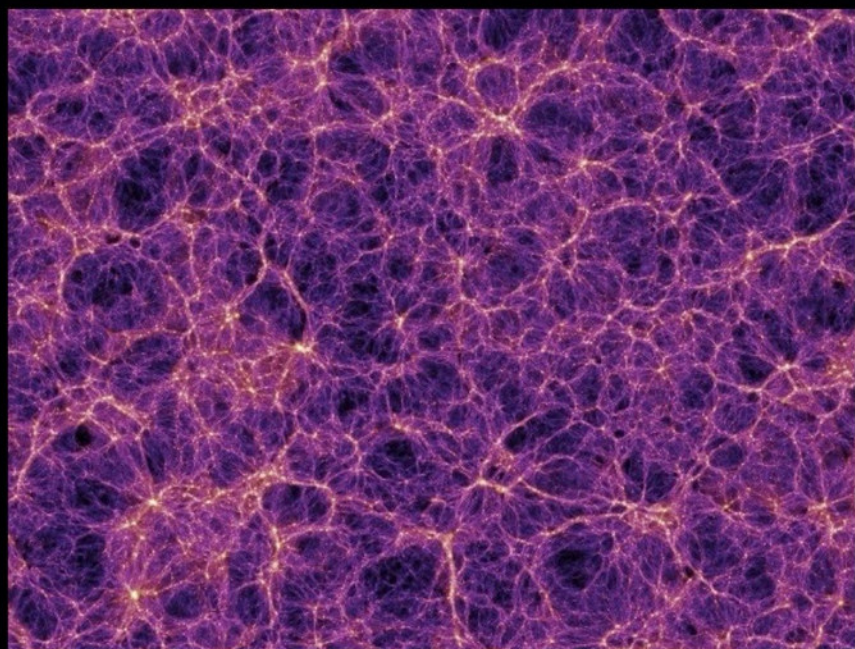
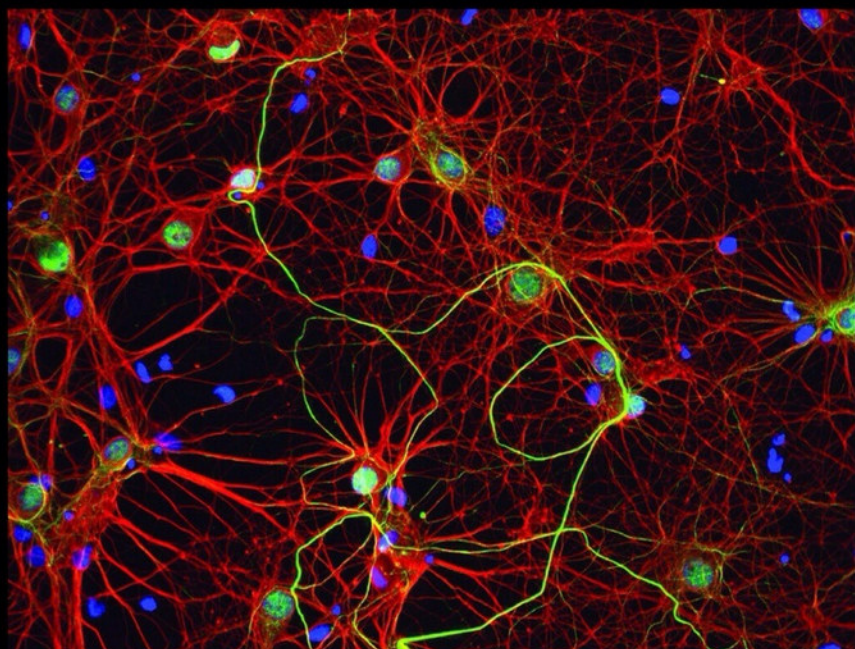
$$\Omega_0 = 1$$



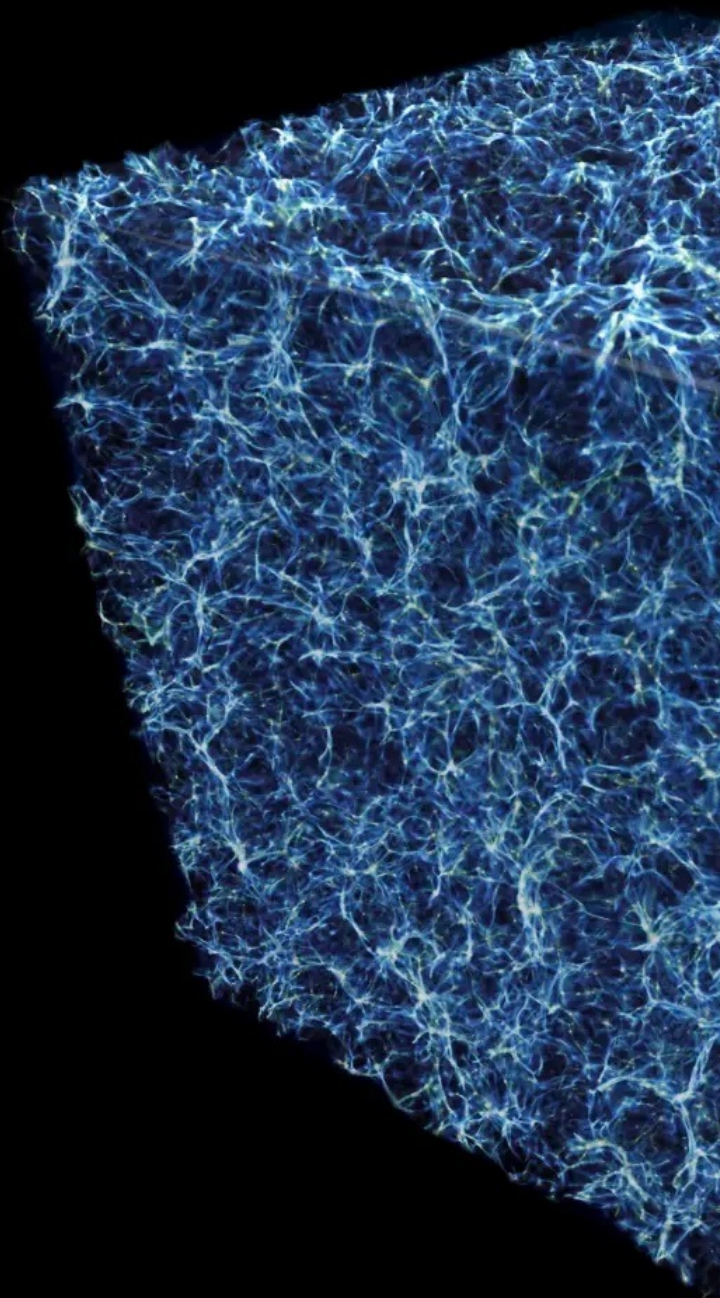


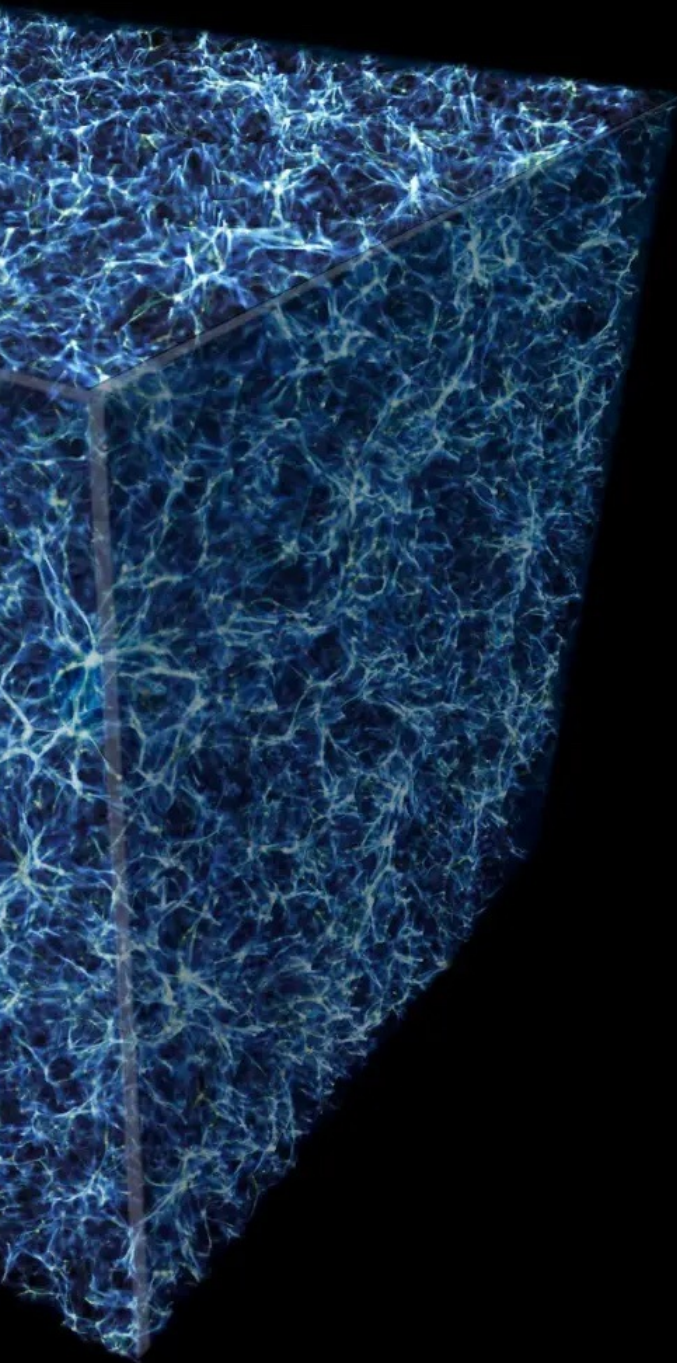


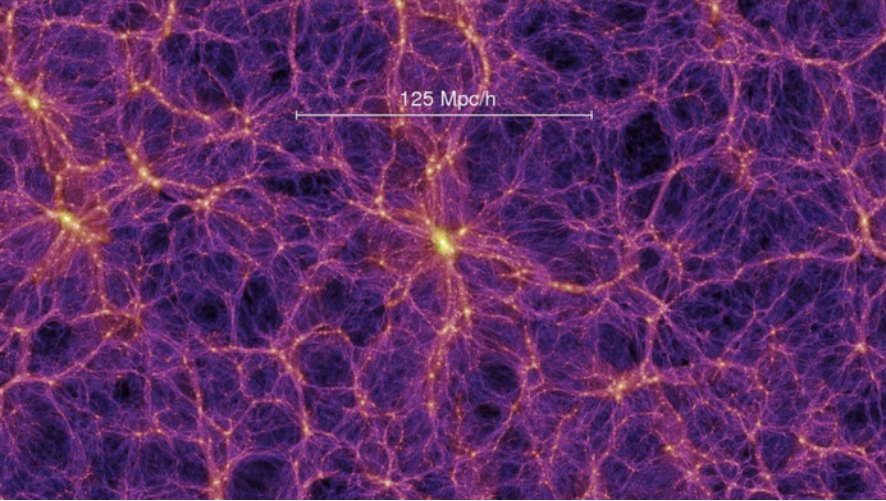
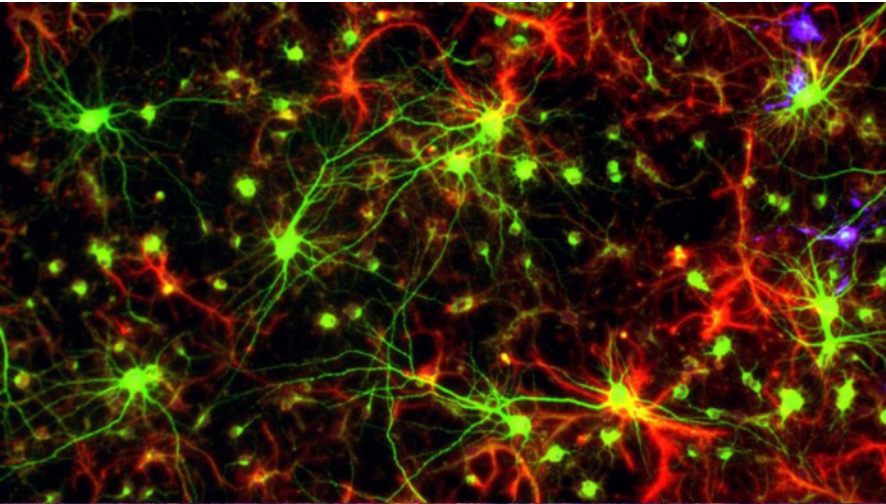




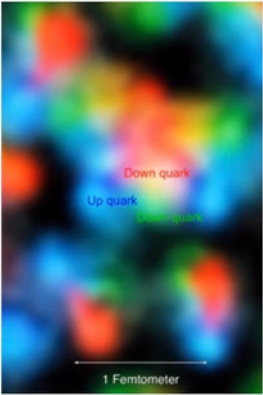
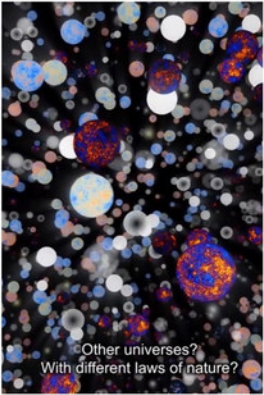
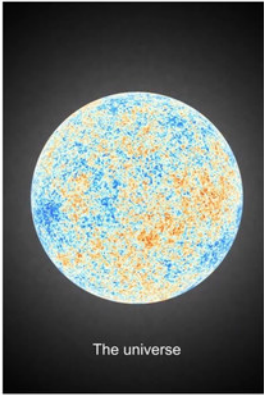


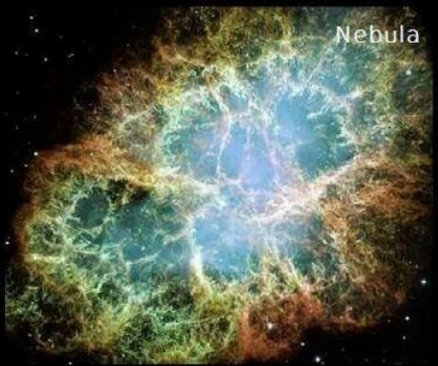
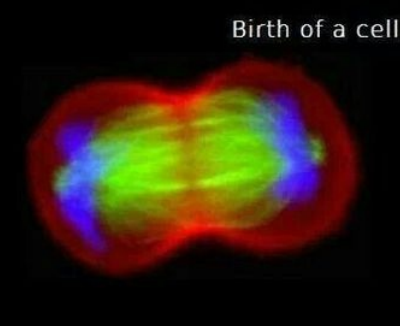
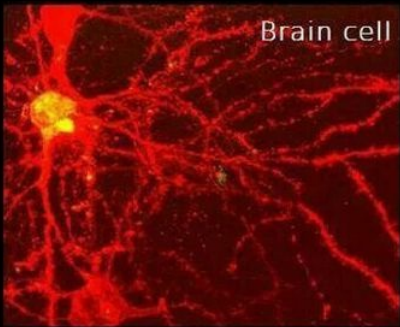












# Human Body Ingredients

The four ingredients below are essential parts of the body's protein, carbohydrate and fat architecture.



## OXYGEN

65.0%

Critical to the conversion of food into energy.



## CARBON

18.5%

The so-called backbone of the building blocks of the body and a key part of other important compounds, such as testosterone and estrogen.



## HYDROGEN

9.5%

Helps transport nutrients, remove wastes and regulate body temperature. Also plays an important role in energy production.



## NITROGEN

3.3%

Found in amino acids, the building blocks of proteins; an essential part of the nucleic acids that constitute DNA.

## Other Key Elements

### Calcium 1.5%

Lends rigidity and strength to bones and teeth; also important for the functioning of nerves and muscles, and for blood clotting.

### Phosphorus 1.0%

Needed for building and maintaining bones and teeth; also found in the molecule ATP (adenosine triphosphate), which provides energy that drives chemical reactions in cells.

### Potassium 0.4%

Important for electrical signaling in nerves and maintaining the balance of water in the body.

### Sulfur 0.3%

Found in cartilage, insulin (the hormone that enables the body to use sugar), breast milk, proteins that play a role in the immune system, and keratin, a substance in skin, hair and nails.

### Chlorine 0.2%

Needed by nerves to function properly; also helps produce gastric juices.

### Sodium 0.2%

Plays a critical role in nerves' electrical signaling; also helps regulate the amount of water in the body.

### Magnesium 0.1%

Plays an important role in the structure of the skeleton and muscles; also found in molecules that help enzymes use ATP to supply energy for chemical reactions in cells.

### Iodine (trace amount)

Part of an essential hormone produced by the thyroid gland; regulates metabolism.

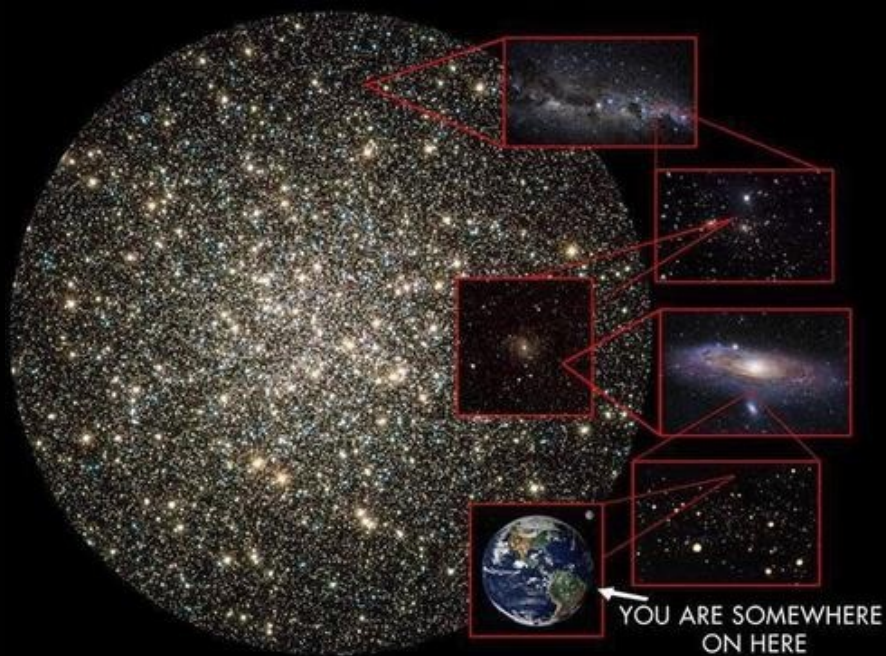
### Iron (trace amount)

Part of hemoglobin, which carries oxygen in red blood cells.

### Zinc (trace amount)

Forms part of some enzymes involved in digestion.

(Percentage of body weight. Source: *Biology*, Campbell and Reece, eighth edition.)



YOU ARE SOMEWHERE  
ON HERE





**The Moon Seen  
From Earth**



**Earth Seen  
From The Moon**



**Saturn & Mars  
Seen From Earth**

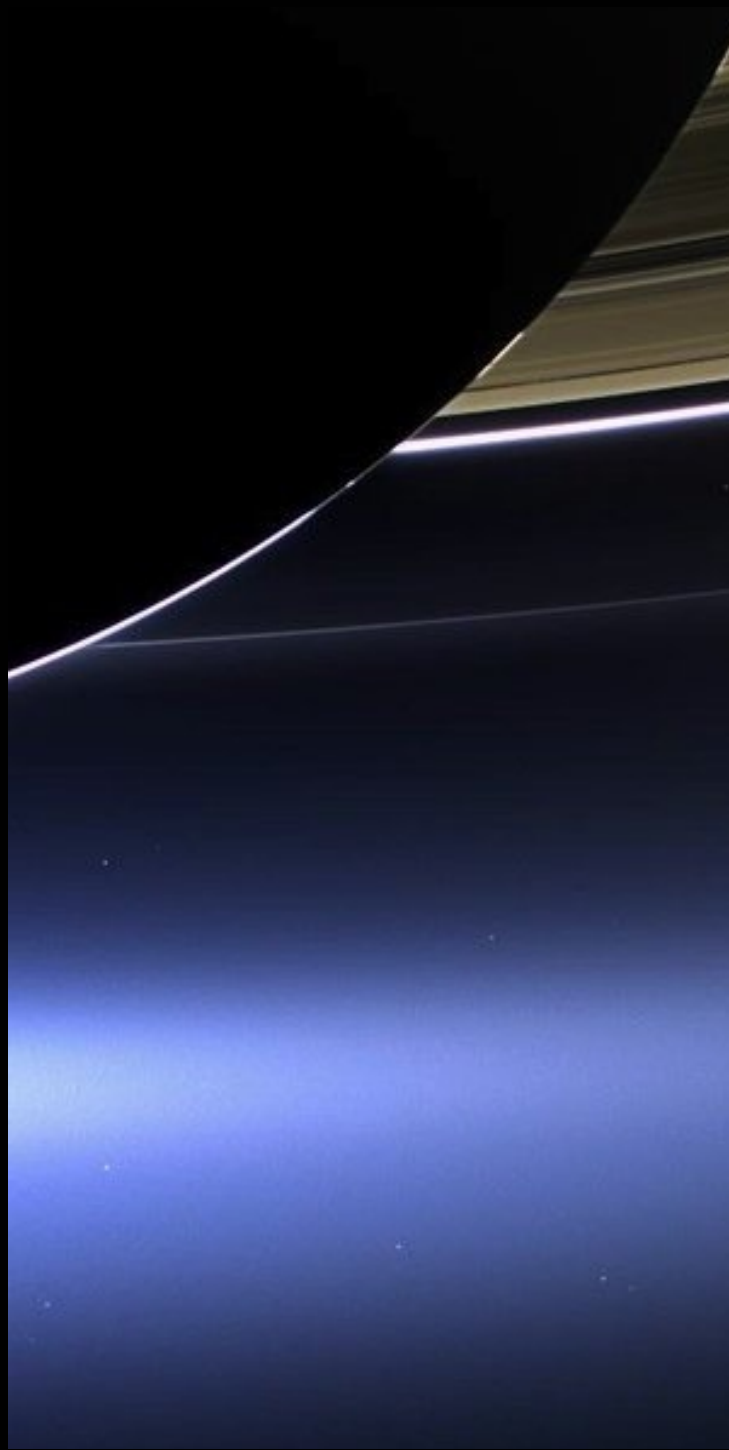


**Earth Seen  
From Saturn**

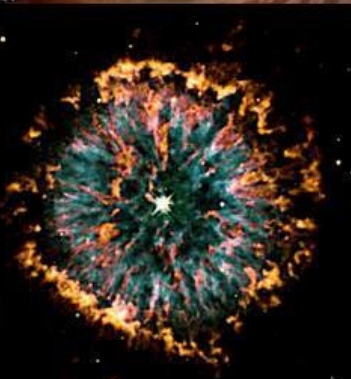
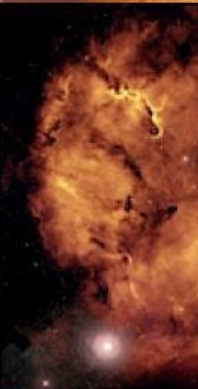
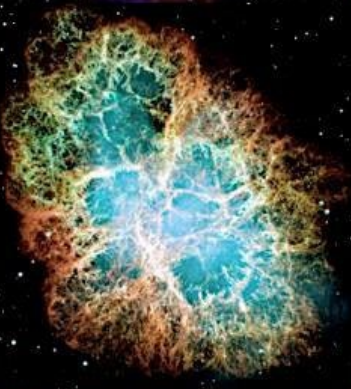


**Earth Seen  
From Mars**

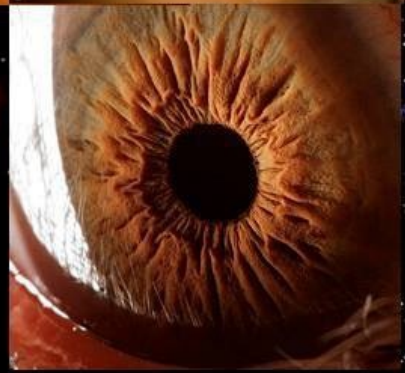
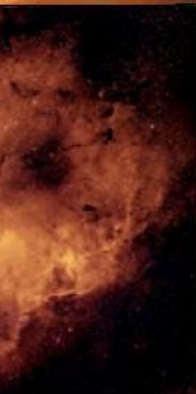
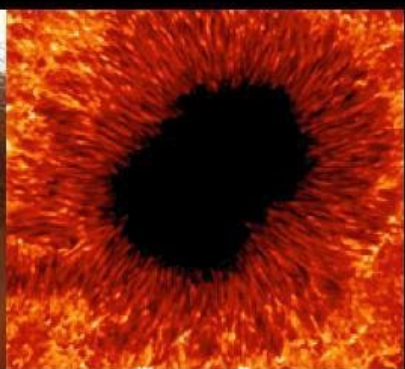


































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**"Todo de alguna manera se conecta con todo lo demás."**

**Leonardo Da Vinci**

